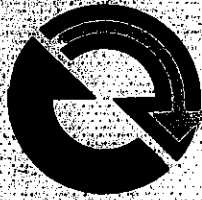


Detroit Diesel Engines



**Detroit Diesel
Allison**

SALES TECH
DATA BOOK 1

Sales Tech
Data Book 1

Vol. 3

Application
Ratings
&
Performance
Curves

1985-1986

SALES TECH DATA

**CONSTRUCTION, INDUSTRIAL,
GENERATOR AND MARINE
PERFORMANCE CURVES**



Detroit Diesel Allison

13400 West Outer Drive
Detroit, Michigan 48239

SALES TECH DATA REVISION CHECK SHEET

Revisions are issued periodically. Insert the pages in your book, then record the date of the Revision on this check sheet.

No. 1 <u>6-83</u> DATE	No. 11 _____ DATE	No. 21 _____ DATE	No. 31 _____ DATE
No. 2 <u>1-84</u> DATE	No. 12 _____ DATE	No. 22 _____ DATE	No. 32 _____ DATE
No. 3 <u>7-84</u> DATE	No. 13 _____ DATE	No. 23 _____ DATE	No. 33 _____ DATE
No. 4 <u>9-84</u> DATE	No. 14 _____ DATE	No. 24 _____ DATE	No. 34 _____ DATE
No. 5 <u>12-84</u> DATE	No. 15 _____ DATE	No. 25 _____ DATE	No. 35 _____ DATE
No. 6 <u>3-85</u> DATE	No. 16 _____ DATE	No. 26 _____ DATE	No. 36 _____ DATE
No. 7 <u>6-85</u> DATE	No. 17 _____ DATE	No. 27 _____ DATE	No. 37 _____ DATE
No. 8 <u>8-85</u> DATE	No. 18 _____ DATE	No. 28 _____ DATE	No. 38 _____ DATE
No. 9 <u>10-85</u> DATE	No. 19 _____ DATE	No. 29 _____ DATE	No. 39 _____ DATE
No. 10 <u>12-85</u> DATE	No. 20 _____ DATE	No. 30 _____ DATE	No. 40 _____ DATE

SALES TECH DATA

**APPLICATION RATINGS,
SPEED DROOP CHARTS AND
AUTOMOTIVE PERFORMANCE CURVES**



Detroit Diesel Allison

13400 West Outer Drive
Detroit, Michigan 48239

SALES TECH DATA REVISION CHECK SHEET

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No. 6 6-85 _____ DATE	No. 16 _____ DATE	No. 26 _____ DATE	No. 36 _____ DATE
No. 7 7-85 _____ DATE	No. 17 _____ DATE	No. 27 _____ DATE	No. 37 _____ DATE
No. 8 _____ DATE	No. 18 _____ DATE	No. 28 _____ DATE	No. 38 _____ DATE
No. 9 _____ DATE	No. 19 _____ DATE	No. 29 _____ DATE	No. 39 _____ DATE
No. 10 _____ DATE	No. 20 _____ DATE	No. 30 _____ DATE	No. 40 _____ DATE

APPLICATION NAME

CODE
NO.

AUTOMOTIVE

020 CRANE CARRIER - PROPULSION UNIT
310 PARLOR COACH
313 MOTORHOME/SPECIALTY CHARTER COACH
316 TRUCK ON/OFF ROAD - PORTABLE DRILL RIG
318 TRUCK ON/OFF ROAD CONSTRUCTION
319 TURBO-UNLOADER
320 HIGHWAY TRUCK - LINE HAUL
321 HIGHWAY OIL FRACTURING UNIT
324 HIGHWAY TRUCK MILITARY (CERTIFIED)
330 CITY BUS OR COACH (TRANSIT)
331 SCHOOL BUS OR CHASSIS (TRUCK TYPE ENGINE)
334 MILITARY BUS CERTIFIED
339 TRUCK ON/OFF ROAD CONSTRUCTION CALIFORNIA
340 CRANE CARRIER PROPULSION CALIFORNIA
341 PARLOR COACH CALIFORNIA
343 HIGHWAY TRUCK CALIFORNIA
344 HIGHWAY OIL FRACTURING UNIT CALIFORNIA
345 CITY BUS OR COACH CALIFORNIA (TRANSIT)
346 SCHOOL BUS CHASSIS CALIFORNIA
347 FIRE TRUCK CALIFORNIA
348 SNOW BLOWER CALIFORNIA
349 DELIVERY TRUCK CALIFORNIA
350 FIRE TRUCK
351 MOTORHOME/SPECIALTY CHARTER COACH CALIFORNIA
360 AIRCRAFT REFUELER (JET FUEL ONLY)
370 SNOW BLOWER (AUTOMOTIVE)
380 DELIVERY TRUCK
385 TRAILER SPOTTER
390 TRAILER SPOTTER CALIFORNIA
951 ACCREDITED EDUCATIONAL INSTITUTIONS (AUTOMOTIVE)

53T MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	4-53T	6V-53T	REMARKS
CRANE CARRIER (TRUCK)	020	MAX	2500/5A60	2600/5A50	
PARLOR COACH	310	MAX	-	2600/5A50	
TRUCK ON/OFF ROAD CONSTRUCTION	318	MAX	2500/5A60	2600/5A50	
HWY. TRUCK, SNOWFLOW, TRANSIT MIX	320	MAX	-	2600/5A50	
CITY BUS OR COACH	330	MAX	2500/5A60	2600/5A50	
SCHOOL BUS OR CHASSIS	331	MAX	2500/5A60	2600/5A50	
MILITARY BUS CERT.	334	MAX	-	2600/5A50	
TRUCK ON/OFF ROAD CONSTRUCTION CALIFORNIA	339	MAX	2500/5A60	-	
FIRE TRUCK	350	MAX	2500/5A60	2600/5A50	
AIRCRAFT REFUELER	360	MAX	2500/5A60	2600/5A50	
SNOW BLOWER (AUTO)	370	MAX	2500/5A55	2600/5A50	
DELIVERY TRUCK	380	MAX	2500/5A60	2600/5A50	

71N MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	6L-71N	6V-71N 2V	8V-71N	REMARKS
CRANE CARRIER (TRUCK)	020	MAX	2300/7E65	-	2300/7E65	
PARLOR COACH	310	MAX	2100/7E60	2100/7E60	2100/7E60	
MOTORHOME/SPECIALTY CHARTER COACH	313	MAX	2100/7E65	-	2100/7E65	
TURBO UNLOADER	319	MAX	-	-	2100/7E60	
HIGHWAY TRUCK	320	MAX	2100/7E65	-	2100/7E65	
HWY. OIL FRACTURING	321	MAX	2300/7E65	-	2300/7E65	
HWY. TRUCK MILT. CERT.	324	MAX	-	-	2300/7E65	
CITY BUS OR COACH	330	MAX	2100/7E60	2100/7E60	2100/7E60	
SCHOOL BUS OR CHASSIS	331	MAX	2100/7E60	-	2100/7E60	
FIRE TRUCK	350	MAX	2300/7E65	-	2300/7E65	
SNOW BLOWER	370	MAX	2100/7E65	-	-	
DELIVERY TRUCK	380	MAX	2100/7E60	-	2100/7E60	
ACCREDITED EDUCATIONAL INSTITUTIONS (AUTO)	951	MAX	2100/7E65	-	2100/7E65	

71N - 1
(08-01-84)

WPD 0937A

FEDERAL CERTIFIED, CALIFORNIA APPROVED TAB

L71T MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	6-71T	6-71TT	REMARKS
CRANE CARRIER	020	MAX	2100/7C75	-	
TRUCK ON/OFF ROAD CONSTRUCTION	318	MAX	2100/7C75	2100/7E75	
HIGHWAY TRUCK	320	MAX	2100/7C75	2100/7E75	
SCHOOL BUS OR CHASSIS	331	MAX	2100/7C70	-	
FIRE TRUCK	350	MAX	2100/7C75	-	
SNOW BLOWER (AUTO)	370	MAX	2100/7C70	-	

L71T MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	6-71TA	6-71TTA	REMARKS
CRANE CARRIER CALIF.	340	MAX	2100/7G75	2100/7G75	
HWY. TRUCK CALIF.	343	MAX	2100/7G75	2100/7G75	
HWY. OIL FRACT. CALIF.	344	MAX	2100/7G75	-	
CITY BUS, COACH CALIF.	345	MAX	2100/7G70	-	
SCHOOL BUS CALIF.	346	MAX	2100/7G70	-	
FIRE TRUCK CALIF.	347	MAX	2100/7G75	-	
DELIVERY TRUCK CALIF.	349	MAX	2100/7G75	2100/7G75	

V71T MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	6V-71TA	8V-71TA	REMARKS
CRANE CARRIER	020	MAX	-	2100/7C75	
PARLOR COACH	310	MAX	-	2100/7C75	
MOTORHOME/SPECIALLY CHARTER COACH	313	MAX	-	2100/7C75	
TRUCK ON/OFF ROAD CONSTRUCTION	318	MAX	-	2100/7C75	
HIGHWAY TRUCK	320	MAX	-	2100/7C75	
CITY BUS OR COACH(TRANSIT)	330	MAX	2100/N60	-	
FIRE TRUCK	350	MAX	2100/N65	2100/7C75	
SNOW BLOWER (AUTO)	370	MAX	-	2100/7C70	

V71T - 1
(08-01-84)

WPD 0940A

FEDERAL CERTIFIED, CALIFORNIA APPROVED TAB

V92T MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	6V-92TA COACH	6V-92TA	6V-92TTA	REMARKS
CRANE CARRIER	020	MAX	-	2100/9B90	2100/9B90	
PARLOR COACH	310	MAX	2100/7G75	-	-	
MOTORHOME/SPECIALTY CHARTER COACH	313	MAX	2100/7G75	2100/9B90	2100/9B90	
TRUCK ON/OFF ROAD CONSTRUCTION	318	MAX	-	2100/9B90	2100/9B90	
HIGHWAY TRUCK	320	MAX	-	2100/9B90	2100/9B90	
CITY BUS OR COACH	330	MAX	2100/7G75	-	-	
SCHOOL BUS OR CHASSIS	331	MAX	2100/7G75	-	-	
TRUCK ON/OFF ROAD CONSTRUCTION CALIF.	339	MAX	-	2100/9F90	2100/9F90	
CRANE CARRIER CALIF.	340	MAX	-	2100/9F90	2100/9F90	
PARLOR COACH CALIF.	341	MAX	2100/7G75	-	-	
HWY. TRUCK CALIF.	343	MAX	-	2100/9F90	2100/9F90	
HWY. OIL FRACT. CALIF.	344	MAX	-	2100/9F90	2100/9F90	
CITY BUS, COACH CALIF.	345	MAX	2100/9E70	-	-	
SCHOOL BUS CALIF.	346	MAX	2100/7G70	-	-	
FIRE TRUCK CALIF.	347	MAX	-	2100/9F90	2100/9F90	
SNOW CLOWER CALIF.	348	MAX	-	2100/9F90	2100/9F90	
DELIVERY TRUCK CALIF.	349	MAX	-	2100/9F90	2100/9F90	
FIRE TRUCK	350	MAX	-	2100/9B90	2100/9B90	
MOTORHOME/SPECIALTY CHARTER COACH CALIF.	351	MAX	2100/7G75	2100/9F90	2100/9F90	
SNOW BLOWER (AUTO)	370	MAX	-	2100/9B90	2100/9B90	
DELIVERY TRUCK	380	MAX	-	2100/9B90	2100/9B90	

V92T - 1
(08-01-84)

V92T MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	8V-92TA	8V-92TTA	REMARKS
CRANE CARRIER	020	MAX	2100/9A90	2100/9A90	
PARLOR COACH	310	MAX	2100/9A80	-	
MOTORHOME/SPECIALTY CHARTER COACH	313	MAX	2100/9A90	2100/9A90	
TRUCK ON/OFF ROAD	316	MAX	2100/9A90	-	
PORTABLE DRILL RIG					
TRUCK ON/OFF ROAD CONSTRUCTION	318	MAX	2100/9A90	2100/9A90	
HIGHWAY TRUCK	320	MAX	2100/9A90	2100/9A90	
CITY BUS OR COACH	330	MAX	2100/9E65	-	
TRUCK ON/OFF ROAD CONSTRUCTION CALIF.	339	MAX	2100/9F90	2100/9F90	
CRANE CARRIER CALIF.	340	MAX	2100/9F90	2100/9F90	
HWY. TRUCK CALIFORNIA	343	MAX	1800/7G75		
		MAX	2100/9F90	2100/9F90	
HWY. OIL FRACT. CALIF.	344	MAX	2100/9F90	2100/9F90	
FIRE TRUCK CALIFORNIA	347	MAX	2100/9F90	2100/9F90	
SNOW BLOWER CALIF.	348	MAX	2100/9F90	2100/9F90	
DELIVERY TRUCK CALIF.	349	MAX	2100/9F90	2100/9F90	
FIRE TRUCK	350	MAX	2100/9A90	2100/9A90	
MOTORHOME/SPECIALTY CHARTER COACH CALIFORNIA	351	MAX	2100/9F90	2100/9F90	
SNOW BLOWER (AUTO)	370	MAX	2100/9A90	2100/9A90	
DELIVERY TRUCK	380	MAX	2100/9A90	2100/9A90	

V92T - 2
(08-01-84)

8.2 LITER MAXIMUM ENGINE SPEED AND INJECTOR SIZE

AUTOMTIVE

APPLICATION	CODE NO.	RATING	8.2 LITER (NATURAL)	8.2 LITER (TURBO)	REMARKS
CRANE CARRIER-PROULSION UNIT	020	MAX	2800/4A53	2800/4C65	
MOTORHOME/SPECIALTY CHARTER COACH	313	MAX	3000/4A53	2800/4C65	
TRUCK ON/OFF ROAD CONSTRUCTION	318	MAX	2800/4A53	2800/4C65	
CITY BUS OR COACH (TRANSIT)	330	MAX	2800/4A53	-	
SCHOOL BUS OR CHASSIS (TRUCK TYPE ENGINE)	331	MAX	3000/4A53	2800/4C65	
CRANE CARRIER PROPULSION CALIFORNIA	340	MAX	2800/4B55	2800/4E67	
SCHOOL BUS CHASSIS CALIFORNIA	346	MAX	2800/4B55	3000/4E67	
FIRE TRUCK CALIFORNIA	347	MAX	2800/4B55	2800/4E67	
DELIVERY TRUCK CALIFORNIA	349	MAX	3000/4B55	3000/4E67	
FIRE TRUCK	350	MAX	2800/4A53	2800/4C65	
MOTOR HOME CALIFORNIA	351	MAX	2800/4B55	3000/4E67	
DELIVERY TRUCK	380	MAX	2800/4A53	2800/4C65	
TRAILER SPOTTER	385	MAX	2800/4A53	2800/4C65	
TRAILER SPOTTER CALIFORNIA	390	MAX	-	2800/4E67	

AUTOMOTIVE EXPORT

CRANE CARRIER-EXPORT	021	MAX	2800/4A53	2800/4C65	
TRUCK ON/OFF ROAD CONSTRUCTION-EXPORT	336	MAX	2800/4A53	2800/4C65	
SCHOOL BUS-REPOWER-EXPORT	337	MAX	2800/4A53	2800/4C65	
FIRE TRUCK-EXPORT	352	MAX	2800/4A53	2800/4C65	
FIRE TRUCK-REPOWER-EXPORT	353	MAX	2800/4A53	2800/4C65	
DELIVERY TRUCK-EXPORT	381	MAX	2800/4A53	2800/4C65	
DELIVERY TRUCK-REPOWER-EXPORT	382	MAX	2800/4A53	2800/4C65	

8.2L 1
(08-01-84)

WPD 0952

FEDERAL CERTIFIED, CALIFORNIA APPROVED TAB

APPLICATION NAME

AUTOMOTIVE EXPORT ENGINES

CODE
NO.

021 CRANE CARRIER - PROPULSION UNIT - EXPORT ONLY
311 PARLOR COACH EXPORT ONLY
312 PARLOR COACH/CHASSIS - REPOWER - EXPORT ONLY
322 HIGHWAY TRUCK, SNOW PLOW & TRANSIT MIX - EXPORT ONLY
323 HIGHWAY OIL FRACTURING UNIT - EXPORT ONLY
325 HIGHWAY OIL FRACTURING UNIT - REPOWER EXPORT ONLY
326 HIGHWAY TRUCK, SNOW PLOW & TRANSIT MIX - REPOWER - EXPORT ONLY
332 CITY BUS OR COACH - EXPORT ONLY
333 CITY BUS OR COACH - REPOWER - EXPORT ONLY
336 TRUCK ON/OFF ROAD CONSTRUCTION - EXPORT ONLY
337 SCHOOL BUS - REPOWER - EXPORT ONLY
352 FIRE TRUCK - EXPORT ONLY
353 FIRE TRUCK - REPOWER - EXPORT ONLY
354 AIRPORT CRASH VEHICLE - AUTOMOTIVE-EXPORT ONLY
371 SNOW BLOWER - EXPORT ONLY
381 DELIVERY TRUCK - EXPORT ONLY
382 DELIVERY TRUCK - REPOWER - EXPORT ONLY

8.2 LITER MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE	RATING	8.2N	8.2T
CRANE CARRIER-EXPORT	021	MAX	2800/4A53	2800/4C65
TRUCK ON/OFF ROAD CONSTRUCTION-EXPORT	336	MAX	2800/4A53	2800/4C65
SCHOOL BUS-REPOWER-EXPORT	337	MAX	2800/4A53	2800/4C65
FIRE TRUCK-EXPORT	352	MAX	2800/4A53	2800/4C65
FIRE TRUCK-REPOWER-EXPORT	353	MAX	2800/4A53	2800/4C65
DELIVERY TRUCK-EXPORT	381	MAX	2800/4A53	2800/4C65
DELIVERY TRUCK-REPOWER-EXPORT	382	MAX	2800/4A53	2800/4C65

53N & T MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	4-53N	4-53T	6V-53N	6V-53T
CRANE CARRIER EXPORT	021	MAX	-	-	2800/C50	2600/5A50
PARLOR COACH EXPORT	311	MAX	-	-	2800/C45	-
PARLOR COACH/CHASSIS EXPORT REPOWER	312	MAX	-	-	2800/C45	-
HWY. TRUCK EXPORT	322	MAX	2800/C50	-	2800/C50	-
HWY. TRUCK EXPORT REPOWER	326	MAX	2800/C50	-	2800/C50	2600/5A50
CITY BUS, COACH EXPORT	332	MAX	2800/C45	-	2800/C50	2600/5A50
CITY BUS, COACH EXPORT	333	MAX	2800/C45	-	2800/C45	2600/5A50
TRUCK ON/OFF ROAD CONST EXPORT	336	MAX	-	2500/5A60	-	-
SCHOOL BUS - REPOWER EXPORT ONLY	337	MAX	2800/C45	2500/5A60	2800/C50	-
SNOW BLOWER - EXPORT	371	MAX	2800/C50	-	-	-
DELIVERY TRUCK EXPORT	381	MAX	2800/C50	-	2800/C50	-
DELIVERY TRUCK EXPORT	382	MAX	2800/C50	-	2800/C50	-

71 MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	6V-71N 2V	12-71N 2V
CITY BUS, COACH EXPORT	332	MAX	2100/C60	2100/C60
CITY BUS, COACH EXPORT REPOWER	333	MAX	2100/C60	2100/C60

L71N & V71N MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	3, 4, 6-71N	6, 8, 12V-71N	REMARKS
CRANE CARRIER - PROP. UNIT - EXPORT ONLY	021	MAX	*2100/C65	-	*4-71N ONLY
PARLOR COACH EXPORT	311	MAX	2100/C60	2100/C60	
PARLOR COACH/CHASSIS EXPORT REPOWER	312	MAX	2100/C60	2100/C60	
HWY. TRUCK EXPORT	322	MAX	2100/C65	2100/C65	
HWY. OIL FRACT. EXPORT	323	MAX	2300/C70	*2300/C70	*2100/C65-12V-71N ONLY
HWY. OIL FRACT. EXPORT REPOWER	325	MAX	2300/C70	*2300/C70	*2100/C65-12V-71N ONLY
HWY. TRUCK EXPORT REPOWER	326	MAX	2100/C65	2100/C65	
CITY BUS OR COACH EXPORT	332	MAX	-	2100/C60	
CITY BUS OR COACH EXPORT REPOWER	333	MAX	*2100/C60	2100/C60	*6-71N ONLY
TRUCK ON/OFF ROAD CONSTRUCTION EXPORT	336	MAX	-	*2100/C65	*12V-71N ONLY
FIRE TRUCK EXPORT	352	MAX	2300/C70	*2300/C70	*2100/C65-12V-71N ONLY
FIRE TRUCK EXPORT REPOWER	353	MAX	2300/C70	*2300/C70	*2100/C65-12V-71N ONLY
DELIVERY TRUCK EXPORT	381	MAX	2100/C60	2100/C60	
DELIVERY TRUCK EXPORT REPOWER	382	MAX	2100/C60	2100/C60	

L71T & V71T MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	6-71T	6, 8 & 12V-71T	6 & 8V-71TA	
HWY. TRUCK EXPORT	322	MAX	2100/N75	2100/N75	*2100/N75	*8V-71TA ONLY
HWY. TRUCK EXPORT REPOWER	326	MAX	2100/N75	2100/N75	*2100/N75	*8V-71TA ONLY
CITY BUS OR COACH EXPORT	332	MAX	2100/7C70	-	*2100/N60	*6V-71TA ONLY
FIRE TRUCK EXPORT	352	MAX	2100/N75	2100/N75	*2100/N75	*8V-71TA ONLY
FIRE TRUCK EXPORT REPOWER	353	MAX	2100/N75	2100/N75	*2100/N75	*8V-71TA ONLY

V92 MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	6 & 8V-92N	6 & 8V-92T	REMARKS
CRANE CARRIER-PROPULSION UNIT - EXPORT ONLY	021	MAX	-	*2300/9200	*8V-92T ONLY
PARLOR COACH EXPORT	311	MAX	2100/9280	2100/9290	
PARLOR COACH/CHASSIS EXPORT	312	MAX	2100/9280	2100/9290	
HWY. TRUCK EXPORT	322	MAX	2100/9280	2100/9290	
HWY. TRUCK EXPORT REPOWER	326	MAX	2100/9280	2100/9290	
CITY BUS, COACH EXPORT	332	MAX	2100/9275	2100/9285	
CITY BUS, COACH EXPORT REPOWER	333	MAX	2100/9275	2100/9285	
FIRE TRUCK EXPORT	352	MAX	2100/9285	*2100/9290	*2300/9200-8V-92T ONLY
FIRE TRUCK EXPORT-REPOWER	353	MAX	2100/9285	2100/9290	
AIRPORT CRASH VEHICLE EXPORT	354	MAX	-	*2300/9210	*8V-92T ONLY
DELIVERY TRUCK EXPORT	381	MAX	2100/9280	2100/9280	
DELIVERY TRUCK EXPORT REPOWER	382	MAX	2100/9280	2100/9280	

APPLICATION	CODE NO.	RATING	6V-92TA	6V-92TTA	8V-92TA	8V-92TTA
PARLOR COACH EXPORT	311	MAX	2100/9B90	2100/9B90	2100/9A90	2100/9A90
PARLOR COACH EXPORT REPOWER	312	MAX	2100/9B90	2100/9B90	2100/9A90	2100/9A90
HWY. TRUCK EXPORT	322	MAX	2100/9B90	2100/9B90	2100/9A90	2100/9A90
HWY. TRUCK EXPORT REPOWER	326	MAX	2100/9B90	2100/9B90	2100/9A90	2100/9A90
CITY BUS, COACH EXPORT	332	MAX	2100/9B85	-	-	-
CITY BUS, COACH EXPORT REPOWER	333	MAX	2100/9B85	-	-	-
FIRE TRUCK EXPORT	352	MAX	2100/9B90	-	2100/9A90	-
FIRE TRUCK EXPORT-REPOWER	353	MAX	2100/9B90	-	2100/9A90	-
AIRPORT CRASH VEHICLE AUTOMOTIVE EXPORT	354	MAX	-	-	2300/9A90	-
DELIVERY TRUCK EXPORT	381	MAX	2100/9B80	-	2100/9A80	-
DELIVERY TRUCK EXPORT REPOWER	382	MAX	2100/9B80	-	2100/9A80	-

APPLICATION NAME

CODE
NO.

000 STOCK ENGINE

EXCAVATING MACHINERY AND CRANES

050 DITCHER, EXCAVATORS, SHOVELS & TRENCHERS
070 CRANES
071 BACKHOE RUBBER TIERED
072 HOIST WIRE LINE
073 CRANE HYDRAULIC SELF PROPELLED RUBBER TIERED
075 CRANE OFFSHORE DRILLING
078 CRANE HYD & NON HYD (8.2 LITER)

INDUSTRIAL AND CONSTRUCTION VEHICLES (OFF-HIGHWAY)

090 TRACTOR-RUBBER TIRE
110 TRACTOR-CRAWLER
120 BOTTOM DUMP TRUCK
130 GRADER
140 SCRAPER
150 COAL HAULER (REAR & BOTTOM DUMP)
160 COMPACTOR, VIBRATORY AND NON VIBRATORY TYPE
170 REAR DUMP TRUCK
179 LOADER-BACKHOE
180 LOADER-FRONT END (WHEEL)
181 LOG STACKER
182 WOOD HARVESTER (RUBBER TIRE-HYDRAULIC DRIVE)
183 LOADER-FRONT END (CRAWLER)
190 TRAILER SPOTTER
191 UTILITY VEHICLE (OFF ROAD)
850 LIFT TRUCK
900 STREET SWEEPER AND CLEANER
970 LOG SKIDDER (WHEEL)
971 CRAWLER TRANSPORTER
972 LOG SKIDDER (CRAWLER)
973 LOG SKIDDER (GRAPPLE)
980 AIRCRAFT TOW TRACTOR
981 AIR CARGO TRANSPORTER & LOADER
982 AIRCRAFT REFUELER-INDUSTRIAL (JET FUEL ONLY)
983 AIRPORT SNOW PLOW

APPLICATION NAME

CODE
NO. INDUSTRIAL AND CONSTRUCTION MACHINERY

200 AIR COMPRESSOR-STATIONARY
210 AIR COMPRESSOR (PORTABLE)-NOT MULTIPLE MANIFOLD
211 AIR COMPRESSOR (PORTABLE)-MULTIPLE MANIFOLD
213 DISTILLATION UNIT (SEAWATER)
215 GROUND SUPPORT-PORTABLE HEATER UNIT/AIR CONDITIONING
216 AIRPORT CRASH VEHICLE-INDUSTRIAL ENGINE
220 CRUSHER & HAMMER MILL
222 CRUSHER-AUTOMOBILE (HYDRAULIC)
223 WATER BLASTER
225 SNOW BLOWER (INDUSTRIAL)
226 SNOW BLOWER INDUSTRIAL (LOAD CONTROLLED)
230 ASPHALT AND CONCRETE MIXER, CABLE SPINNER & CONVEYORS
231 CHIP SPREADER
232 PORTABLE GARBAGE/TRASH SHREDDER
233 INDUSTRIAL VACUUM PORTABLE
235 EXHAUST FAN
240 PAVER-ASPHALT & CONCRETE
245 OVERHEAD LIFT (SKI LIFT)
250 ROAD BASE PREPARATION
251 ROAD RESURFACING
261 EARTH BORER
265 CORE DRILL
270 DRILL-AIR
275 HYDRAULIC PUMP FOR PILE DRIVER
280 AIR COMPRESSOR (PORTABLE)-AIRCRAFT JET STARTER ONLY
285 WOOD CHIPPER-PORTABLE
286 WOOD CHIPPER-STATIONARY
290 ROAD ROLLER
294 GAS TURBINE STARTER (DIESEL FUEL ONLY)
295 GAS TURBINE STARTER (JET FUEL ONLY)
881 FIRE PUMP (DISTRIBUTOR CERTIFIED)
882 FIRE PUMP-VERTICAL TURBINE (DISTRIBUTOR CERTIFIED)
890 STAND BY PUMP
911 UNDERGROUND
920 SAW MILL
930 WINCH & YARDER
960 PLANING MILL

APPLICATION NAME

CODE
NO. MARINE (PROPULSION ONLY)

410 MARINE MAXIMUM RATING-PROPELLER DRIVEN
 PLEASURE CRAFT
415 MARINE MAXIMUM RATING-JET DRIVE
 PLEASURE CRAFT
421 MARINE INTERMITTENT RATING-FISHING
 PURSE SEINE SKIFF
 CRAB OR LOBSTER BOAT
 PARTY FISHING BOAT
 CHARTER SPORT FISHERMAN
422 MARINE CONTINUOUS RATING-FISHING
 FISHING TRAWLER
 DRAGGER
 FISHING FACTORY SHIP
 FISHING MOTHER SHIP
430 MARINE MAXIMUM RATING-COMMERCIAL
 FIRE BOAT
 DOCKING BOW THRUSTER
 CUSTOMS BOAT
 POLICE BOAT
431 MARINE INTERMITTENT RATING-COMMERCIAL
 CREWBOAT
 WATER TAXI
 FERRYBOAT
 SIGHTSEEING BOAT
 PLANING TYPE UTILITY BOAT
432 MARINE INTERMITTENT RATING-LIGHT DUTY
 GILLNETTER
440 MARINE MAXIMUM RATING-GOVERNMENT
 SEA FOX
 GOV'T PATROL BOAT
 GOV'T SEARCH & RESCUE BOAT
 GOV'T PERSONAL BOAT
 LANDING CRAFT
 OIL SKIMMER
442 MARINE CONTINUOUS RATING-GOVERNMENT
 GOV'T TUG
 GOV'T TENDER
 GOV'T SUPPLY BOAT
452 MARINE CONTINUOUS RATING-COMMERCIAL
 TOWBOAT
 TUG
 STEERING BOW THRUSTER
 OFFSHORE SUPPLY BOAT
 DISPLACEMENT TYPE WORKBOAT

NOTE-FOR OTHER MARINE APPLICATIONS CONSULT THE FACTORY

APPLICATION NAME

CODE
NO.

MARINE (OTHER THAN PROPULSION)

470 BARGE & DREDGE PUMP & WINCH
471 DREDGE PUMP-SETTLING POND

RAILROAD EQUIPMENT

520 RAILCAR-PROPULSION
530 ROAD LOCOMOTIVE
540 RAILWAY MAINTENANCE
541 RAILWAY MAINTENANCE-ELECTRICAL
545 RAILWAY BRUSH CUTTER
550 SWITCHER
560 RAILCAR MOLTEN STEEL CARRIER

AGRICULTURAL MACHINERY

610 FARM TRACTOR-2WD
611 FARM TRACTOR-4WD
620 FEED OR GRAIN MILL
630 SPRAYER
650 COTTON GIN
655 HARVESTER-CANE
660 HARVESTER-COMBINE
665 HARVESTER-FORAGE
670 DRY BULK BLOWER-PORTABLE
675 DRY BULK BLOWER-STATIONARY
680 SPREADER AGRICULTURAL
840 IRRIGATION PUMP

PETROLEUM

710 DRILL RIG-PORTABLE
720 DREDGE, LINE, MUD & MUNICIPAL PUMPS
730 FRACTURING OIL OR CEMENT PUMP
731 FRACTURING OIL OR CEMENT PUMP (SPECIAL 149 APPLICATIONS)
740 DRILL TABLE
750 DRAW WORKS
751 DRAW WORKS-HIGHWAY (NON-CERTIFIED)

APPLICATION NAME

CODE ELECTRICAL (ELECTRIC SETS, MARINE, INDUSTRIAL)
NO.

480 SHIPS EMERGENCY
481 SHIPS SERVICE-PRIME POWER
510 REEFER OR REFRIGERATION
805 ELECTRIC DRILLING RIGS
809 GROUND POWER UNIT (AIRCRAFT)
810 PRIME POWER GOVERNMENT
811 STANDBY POWER TACTICAL GOVERNMENT
820 PRIME POWER-COMMERCIAL BUILDINGS
825 EXCAVATORS & CRANES ELECTRIC
 BACKHOE
 DRAGLINE
 HOIST
 SHOVEL
 CRANE
830 WELDER
870 STANDBY POWER-COMMERCIAL BUILDINGS

CODE SPECIAL
NO.

940 MILITARY ENGINE
950 ACCREDITED EDUCATIONAL INSTITUTIONS

APPLICATION NAME

CODE
NO.

SPECIAL

900 STREET SWEEPER AND CLEANER
940 MILITARY ENGINE
950 ACCREDITED EDUCATIONAL INSTITUTIONS

53N MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.		RATING 3 & 4-53N	6V-53N	REMARKS
STOCK ENGINE	000	MAX	2800/N45	2600/N45	
DITCHERS, EXCAVATORS, SHOVELS & TRENCHERS	050	MAX	2500/N45	2500/N45	
CRANES	070	MAX	2800/N50	2800/N50	
CRANE HYD. SELF PROPELLED RUBBER TIRED	073	MAX	*2800/N50	-	*4-53N ONLY
TRACTOR-RUBBER TIRE	090	MAX	2500/N50	2500/N45	
TRACTOR-CRAWLER	110	MAX	2500/N45	2500/N45	
BOTTOM DUMP TRUCK	120	MAX	2500/N45	2500/N45	
GRADER	130	MAX	2800/N50	2800/N50	
SCRAPER	140	MAX	2500/N45	2500/N45	
COMPACTOR-VIBRATORY & NON VIBRATORY	160	MAX	2800/N50	2800/N50	
REAR DUMP TRUCK	170	MAX	2500/N45	2500/N45	
LOADER-BACKHOE	179	MAX	2500/N45	2500/N45	
LOADER-FRONT END (WHEEL)	180	MAX	2800/N50	2800/N50	
LOG STACKER	181	MAX	2500/N45	-	
WOOD HARVESTER	182	MAX	2500/N45	2500/N45	
TRAILER SPOTTER	190	MAX	2800/N50	2800/N50	
AIR COMPRESSOR STATIONARY	200	REC	2400/(C)	2400/(C)	(C) CONT RATING
		MAX	2400/N40	2400/N40	
PORTABLE-NOT MULTIPLE MANIFOLDED	210	MAX	2800/N50	2800/N50	
GROUND SUPPORT	215	MAX	2500/N45	2500/N45	
PORTABLE HEATER OR AIR CONDITIONING					
AIRPORT CRASH VEHICLE	216	MAX	-	2800/N50	
CRUSHER & HAMMER MILL	220	MAX	2400/N40	2400/N40	
WATER BLASTER	223	MAX	2800/N45	-	
SNOW BLOWER (INDUSTRIAL)	225	MAX	2800/N50	2800/N50	
ASPHALT & CONCRETE MIXER	230	MAX	2500/N45	2500/N45	
CHIP SPREADER	231	MAX	2600/N45	2600/N45	
PAVER-ASPHALT & CONCRETE	240	MAX	2500/N45	2500/N45	
ROAD BASE PREPARATION	250	MAX	2500/N45	-	
EARTH BORER	261	MAX	2800/N50	2800/N50	
DRILL AIR	270	MAX	2500/N45	2500/N45	
HYDRAULIC PUMP FOR PILE DRIVER	275	MAX	*2500/N50	-	*4-53N ONLY
AIR COMPRESSOR PORTABLE-AIRCRAFT JET STARTER ONLY	280	MAX	2500/N50	2500/N45	
ROAD ROLLER	290	MAX	2800/N50	2500/N50	

53N MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATINGS	3 & 4-53N	6V-53N	REMARKS
GAS TURBINE STARTER (DIESEL FUEL)	294	MAX	2800/N50	2800/N50	
GAS TURBINE STARTER (JET FUEL)	295	MAX	2800/M55	2800/M55	JET FUEL ONLY
MARINE MAXIMUM RATING PLEASURE CRAFT (PROPELLER DRIVEN)	410	MAX	2800/N50	2800/N50	
MARINE MAXIMUM RATING PLEASURE CRAFT (JET DRIVE)	415	MAX	2800/M55	2800/M55	
MARINE INTERMITTENT RATING-FISHING	421	MAX	2500/N45	2500/N45	
MARINE CONTINUOUS RATING-FISHING	422	MAX	2500/N40	2500/N40	
MARINE MAXIMUM RATING COMMERCIAL	430	MAX	2800/N50	2800/N50	
MARINE INTERMITTENT RATING-COMMERCIAL	431	MAX	2500/N45	2500/N45	
MARINE MAXIMUM RATING GOVERNMENT	440	MAX	2800/N50	2800/N50	
MARINE CONTINUOUS RATING-GOVERNMENT	442	MAX	2400/N40	2400/N40	
MARINE CONTINUOUS RATING-COMMERCIAL	452	MAX	2400/N40	2400/N40	
BARGE OR DREDGE PUMP	470	REC	2200/(C)	2200/(C)	(C) CONT RATING
		MAX	2200/N40	2200/N40	
SHIP SERVICE-PRIME POWER	481	MAX	*1800/N40	-	*4-53N
REEFER	510	MAX	1800/N45	-	
RAILCAR-PROPULSION	520	MAX	2500/N45	2500/N45	
ROAD LOCOMOTIVE	530	MAX	2400/N40	2400/N40	
RAILWAY MAINTENANCE	540	MAX	2800/N50	2500/N45	
SWITCHER	550	MAX	2500/N50	2500/N50	
FARM TRACTOR-2WD	610	MAX	2500/N50	2500/N50	
FARM TRACTOR-4WD	611	MAX	2500/N50	2500/N50	
FEED OR GRAIN MILL	620	MAX	2500/N45	2500/N45	
SPRAYER	630	MAX	2800/N50	2800/N50	
COTTON GIN	650	MAX	2500/N45	2500/N45	
HARVESTER-COMBINE	660	MAX	2800/N50	2800/N50	
DRY BULK BLOWER-PORTABLE	670	MAX	2800/N50	2800/N50	
SPREADER	680	MAX	2800/N50	2800/N50	
DRILL RIG-PORTABLE	710	MAX	2800/N50	2800/N50	
DREDGE, LINE, MUD AND MUNICIPAL PUMPS	720	REC	2200/(C)	2200/(C)	(C) CONT RATING
		MAX	2200/N40	2200/N40	

53N - 2
(08-01-84)

WPD 0943A

3 & 4-53N, 6V-53N TAB

53N MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	3 & 4-53N	6V-53N	REMARKS
FRACTURING OIL OR CEMENT PUMP	730	MAX	2800/N50	2800/N50	
DRILL TABLE	740	REC MAX	2400/(C) 2400/N40	2400/(C) 2400/N40	(C) CONT RATING
DRAW WORKS	750	MAX	2800/N45	2800/N45	
GROUND POWER UNIT (AIR CRAFT)	809	MAX	2400/N45	2400/N45	
PRIME POWER GOVERNMENT	810	MAX	2400/N45	2400/N45	
STANDBY POWER	811	MAX	2400/N50	2400/N50	
TACTICAL GOVERNMENT GENERATOR PRIME POWER	820	MAX	1800/N40	1800/N40	
WELDER	830	MAX	2500/N50	-	
IRRIGATION PUMP	840	MAX	2500/N45	2500/N45	
LIFT TRUCK	850	MAX	2800/N45	2800/N45	
GENERATOR-STANDBY	870	MAX	2400/N50	2400/N50	
FIRE PUMP	881	MAX	2800/N50	2800/N50	
(DISTRIBUTOR CERTIFIED)					
STANDBY PUMP	890	MAX	2800/N50	2800/N50	
STREET SWEEPER	900	MAX	2800/N45	2800/N45	
UNDERGROUND	911	MAX	2800/N45	2800/N45	
SAW MILL	920	MAX	2500/N50	2500/N50	
WINCH OR YARDER	930	MAX	2500/N50	2500/N50	
PLANING MILL	960	MAX	2400/N45	2400/N45	
LOG SKIDDER	970	MAX	2800/N50	2800/N50	
CRAWLER TRANSPORTER	971	MAX	2800/N45	2800/N45	
AIRCRAFT TOW TRACTOR	980	MAX	2800/N45	2800/N45	
AIR CARGO TRANSPORTER & LOADER	981	MAX	2800/N50	-	
AIRCRAFT REFUELER	982	MAX	-	2800/N65	
JET FUEL ONLY					

53N - 3
(08-01-84)

WPD 0943A

3 & 4-53N, 6V-53N TAB

53N MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	3 & 4-53N	6V-53N	REMARKS
LOG SKIDDER	970	REC MAX	2600/N45 2800/N50	2600/N45 2800/N50	
CRAWLER TRANSPORTER	971	REC MAX	2500/N45 2800/N45	2500/N45 2800/N45	
AIRCRAFT TOW TRACTOR	980	REC MAX	2500/N45 2800/N45	2500/N45 2800/N45	
AIR CARGO TRANSPORTER & LOADER	981	MAX	2800/N50	-	
AIRCRAFT REFUELER JET FUEL ONLY	982	MAX	-	2800/N65	

53N - 4
(03/01/83)

WPD 0943A

3 & 4-53N, 6V-53N TAB

53T MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	3 & 4-53T	6V-53T	REMARKS
STOCK ENGINE	000	MAX	2500/5A55	2500/5A55	
DITCHERS, EXCAVATORS, SHOVELS & TRENCHERS	050	MAX	2500/5A55	2500/5A55	
CRANES	070	MAX	2500/N65	2500/5A55	
		MAX	2600/5A60	2600/5A50	
BACKHOE RUBBER TIRED	071	MAX	*2500/5A60	-	*3-53T ONLY
CRANE HYD. SELF PROPELLED	073	MAX	*2800/5A60	-	*3-53T ONLY
RUBBER TIRE					
TRACTOR-RUBBER TIRE	090	MAX	2500/5A55	2500/5A55	
BOTTOM DUMP TRUCK	120	MAX	2500/5A60	2500/5A55	
GRADER	130	MAX	2500/N65	2500/5A55	
SCRAPER	140	MAX	2500/5A55	2500/5A55	
COMPACTOR-VIBRATORY	160	MAX	2500/N65	2500/5A55	
& NON VIBRATORY					
REAR DUMP TRUCK	170	MAX	2500/N65	2500/5A55	
LOADER-FRONT END	180	MAX	2500/N65	2500/5A55	
(WHEEL)		MAX	*2600/5A60	-	*3-53T ONLY
LOG STACKER	181	MAX	2500/5A60	2500/5A55	
LOADER-FRONT END (CRAWLER)	183	MAX	2500/5A60	2500/5A55	
		MAX	*2600/5A55	-	*3-53T ONLY
TRAILER SPOTTER	190	MAX	*2500/5A60	2600/5A60	*4-53T ONLY
UTILITY VEHICLE (OFF ROAD)	191	MAX	2500/5A60	-	
AIR COMPRESSOR					
STATIONARY	200	MAX	2500/5A55	2500/5A55	
PORTABLE-NOT	210	MAX	2500/N65	2500/5A55	
MULTIPLE MANIFOLDED					
GROUND SUPPORT	215	MAX	2500/5A55	2500/5A55	
PORTABLE HEATER/AIR CONDITIONING					
AIRPORT CRASH VEHICLE	216	MAX	2500/N65	2500/5A55	
		MAX	*2850/5A55	-	*4-53T ONLY
CRUSHER & HAMMER MILL	220	MAX	2500/5A55	2500/5A55	
SNOWBLOWER (INDUSTRIAL)	225	MAX	2500/N65	2500/5A60	
		MAX	*2600/5A55	-	*4-53T ONLY
ASPHALT & CONCRETE MIXER	230	MAX	2500/5A55	2500/5A55	
CHIP SPREADER	231	MAX	2500/N65	2500/5A55	
PAVER-ASPHALT & CONCRETE	240	MAX	2500/5A60	2500/5A55	
		MAX	*2200/N65	-	*3-53T ONLY
OVERHEAD LIFT (SKI LIFT)	245	MAX	2500/5A60	2500/5A55	
ROAD BASE PREPARATION	250	MAX	2500/5A55	2500/5A55	
ROAD RESURFACING	251	MAX	2300/5A60	2300/5A60	
EARTH BORER	261	MAX	*2500/5A60	-	*3-53T ONLY
CORE DRILL	265	MAX	*2500/5A60	-	*4-53T ONLY
DRILL AIR	270	MAX	2500/5A55	2500/5A55	
AIR COMPRESSOR	280	MAX	2500/N65	2500/5A55	
PORTABLE-AIRCRAFT					
JET STARTER ONLY					
ROAD ROLLER	290	MAX	2500/N65	2500/5A55	
GAS TURBINE STARTER	295	MAX	2500/N65	2500/5A55	
MARINE MAXIMUM RATING	410	MAX	*2500/N65	2800/N70	*4-53T ONLY
PLEASURE CRAFT					
MARINE INTERMITTENT	432	MAX	-	2800/5N65	
RATING LIGHT DUTY					

53T - 1
(08-01-84)

53T MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	3 & 4-53T	6V-53T	REMARKS
MARINE MAXIMUM RATING	440	MAX	*2500/N65	2800/5N65	*4-53T ONLY
GOVERNMENT					
RAILCAR-PROPULSION	520	MAX	2500/5A55	2500/5A55	
ROAD LOCOMOTIVE	530	MAX	2500/5A55	2500/5A55	
RAILWAY MAINTENANCE	540	MAX	2500/N65	2500/5A55	
SWITCHER	550	MAX	2500/N65	2500/5A55	
FARM TRACTOR-2WD	610	MAX	2500/N65	2500/5A55	
		MAX	-	2600/5A50	
FARM TRACTOR-4WD	611	MAX	2500/N65	2500/5A55	
FEED OR GRAIN MILL	620	MAX	2500/5A55	2500/5A55	
SPRAYER	630	MAX	2500/N65	2600/5A60	
COTTON GIN	650	MAX	2500/5A55	2500/5A55	
HARVESTER-COMBINE	660	MAX	2500/N65	2500/5A55	
		MAX	*2600/5A55	-	*4-53T ONLY
DRY BULK BLOWER-PORTABLE	670	MAX	2500/N65	2500/5A55	
SPREADER	680	MAX	2500/N65	2600/5A60	
DRILL RIG-PORTABLE	710	MAX	2500/5A55	2500/5A55	
DREDGE, LINE, MUD OR	720	MAX	2500/5A55	2500/5A55	
MUNICIPAL PUMPS					
FRACTURING OIL OR	730	MAX	2500/N65	2500/5A55	
CEMENT PUMP					
DRILL TABLE	740	MAX	2500/5A55	2500/5A55	
DRAW WORKS	750	MAX	2500/5A55	2500/5A55	
WELDER	830	MAX	2500/N65	2500/5A55	
IRRIGATION PUMP	840	MAX	2500/5A55	2500/5A55	
LIFT TRUCK	850	MAX	2500/N65	2500/5A55	
GENERATOR-STANDBY	870	MAX	1800/N65	1800/5A55	
FIRE PUMP	881	MAX	2500/N65	2500/5A55	
(DISTRIBUTOR CERTIFIED)					
STANDBY PUMP	890	MAX	2500/N65	2500/5A55	
STREET SWEEPER	900	MAX	2500/N65	2500/5A55	
SAW MILL	920	MAX	+2500/5A60	2500/5A55	+3-53T ONLY
		MAX	*2500/N65	-	*4-53T ONLY
WINCH OR YARDER	930	MAX	2500/N65	2500/5A55	
MILITARY ENGINE	940	MAX	-	2800/N70	
PLANING MILL	960	MAX	2500/5A55	2500/5A55	
LOG SKIDDER	970	MAX	2500/N65	2500/5A55	
CRAWLER TRANSPORTER	971	MAX	2500/5A55	2500/5A55	
LOG SKIDDER (CRAWLER)	972	MAX	*2600/5A55	-	*3-53T ONLY
AIRCRAFT TOW TRACTOR	980	MAX	2500/N65	2500/5A55	
AIRCRAFT REFUELER (IND.)	982	MAX	-	2800/N65	

SERIES 53 TURBOCHARGED
MAXIMUM SPEED AND INJECTOR CHART

APPLICATION	CODE NO.	3-53T RPM/INJ./HP	4-53T RPM/INJ./HP	6V-53T RPM/INJ./HP	REMARKS
STOCK ENGINE	000	2500/5E60/140	2500/5C60/185	2500/5C60/280	
DITCHERS, EXCAVATORS, SHOVELS & TRENCHERS	050	2500/5E60/140	2500/5C60/185	2500/5C55/250	
CRANES	070	2500/5E60/140	2500/5C60/185	+2500/5C60/280	+2600/5C55
BACKHOE RUBBER TIRED	071	*2500/5E60/140	*2500/5C60/185	2500/5C55/250	
CRANE HYD. SELF PROPELLED RUBBER TIRE	073	*2500/5E60/140	*2500/5C60/185	2500/5C60/280	
TRACTOR-RUBBER TIRE	090	2500/5E60/140	2500/5C60/185	2500/5C55/250	
TRACTOR-CRAWLER	110	2500/5E55/120	2500/5C55/165	2500/5C50/225	
GRADER	130	2500/5E60/140	2500/5C60/185	2500/5C55/250	
COMPACTOR-VIBRATORY & NON VIBRATORY	160	2500/5E60/140	2500/5C60/185	2500/5C55/250	
REAR DUMP TRUCK	170	-	-	2500/5C55/250	
LOADER-FRONT END (WHEEL DRIVEN)	180	2500/5E60/140	2500/5C60/185	2500/5C55/250	
LOG STACKER	181	2500/5E60/140	2500/5C60/185	2500/5C55/250	
TRAILER SPOTTER	190	*2500/5E60/140	*2500/5C60/185	*2500/5C60/280	
UTILITY VEHICLE (OFF ROAD)	191	2500/5E60/140	2500/5C60/185	2500/5C55/250	
AIR COMPRESSOR STATIONARY	200	2500/5E55/120	2500/5C55/165	2500/5C55/250	
PORTABLE-NOT MULTIPLE MANIFOLDED	210	2500/5E60/140	2500/5C60/185	2500/5C60/280	
GROUND SUPPORT PORTABLE HEATER/AIR CONDITIONING	215	2500/5E60/140	2500/5C60/185	2500/5C55/250	
AIRPORT CRASH VEHICLE	216	*2500/5E60/140	*2500/5C60/185	*2500/5C60/280	
CRUSHER & HAMMER MILL	220	2500/5E55/120	2500/5C55/165	2500/5C50/225	
WATER BLASTER	223	2500/5E60/140	2500/5C60/185	2500/5C60/280	
SNOWBLOWER (INDUSTRIAL)	225	2500/5E60/140	2500/5C60/185	2500/5C60/280	
ASPHALT & CONCRETE MIXER	230	2500/5E55/120	2500/5C55/165	2500/5C55/250	
CHIP SPREADER	231	2500/5E60/140	2500/5C60/185	2500/5C60/280	
PAVER-ASPHALT & CONCRETE	240	2500/5E60/140	2500/5C60/185	2500/5C55/250	
ROAD BASE PREPARATION	250	2500/5E55/120	2500/5C55/165	2500/5C55/250	
ROAD RESURFACING	251	2500/5E55/120	2500/5C55/165	2500/5C55/250	
EARTH BORER	261	2500/5E60/140	2500/5C60/185	2500/5C55/250	
CORE DRILL	265	2500/5E60/140	2500/5C60/185	2500/5C55/250	
DRILL AIR	270	2500/5E60/140	2500/5C55/165	2500/5C55/250	
HYD PUMP-PILE DRIVER	275	2500/5E60/140	2500/5C60/185	2500/5C60/280	
AIR COMPRESSOR PORTABLE-AIRCRAFT/JET STARTER ONLY	280	*2500/5E60/140	*2500/5C60/185	*2500/5C60/280	
ROAD ROLLER	290	2500/5E60/140	2500/5C60/185	2500/5C55/250	

53T - 3
(08-01-84)

SERIES 53 TURBOCHARGED
MAXIMUM SPEED AND INJECTOR CHART

APPLICATION	CODE NO.	3-53T RPM/INJ./HP	4-53T RPM/INJ./HP	6V-53T RPM/INJ./HP	REMARKS
GAS TURBINE STARTER	295	*2500/5E60/140	*2500/5C60/185	*2500/5C60/280	
MARINE MAXIMUM RATING PLEASURE CRAFT	410		2500/ N65/175	2800/ N70/305	
MARINE INTERMITTENT RATING LIGHT DUTY	432	-	-	2800/5N65/260	
MARINE MAXIMUM RATING GOVERNMENT	440	-	2500/ N65/175	2800/5N65/260	
RAILWAY MAINTENANCE	540	2500/5E60/140	2500/5C60/185	2500/5C55/250	
FARM TRACTOR-2WD	610	2500/5E60/140	2500/5C60/185	2500/5C55/250	
FARM TRACTOR-4WD	611	2500/5E60/140	2500/5C55/165	2500/5C55/250	
FEED OR GRAIN MILL	620	2500/5E60/140	2500/5C55/165	2500/5C55/250	
SPRAYER	630	2500/5E60/140	2500/5C60/185	2500/5C60/280	
HARVESTER-COMBINE	660	2500/5E60/140	2500/5C55/165	2500/5C55/250	
HARVESTER-FORAGE	665	2500/5E60/140	2500/5C60/185	2500/5C60/280	
GRAIN BLOWER-PORTABLE	670	*2500/5E60/140	2500/5C60/185	2500/5C60/280	
SPREADER	680	*2500/5E60/140	2500/5C60/185	2500/5C60/280	
DRILL RIG-PORTABLE	710	2500/5E60/140	2500/5C55/165	2500/5C55/250	
DREDGE, LINE, MUD OR MUNICIPAL PUMPS	720	2500/5E55/120	2500/5C55/165	2500/5C50/225	
FRACTURING OIL OR CEMENT PUMP	730	*2500/5E60/140	*2500/5C60/185	*2500/5C60/280	
DRILL TABLE	740	2500/5E50/110	2500/5C50/150	2500/5C50/225	
DRAW WORKS	750	2500/5E60/140	2500/5C60/185	2500/5C60/280	
WELDER	830	*2500/5E60/140	*2500/5C60/185	*2500/5C60/280	
IRRIGATION PUMP	840	2500/5E55/120	2500/5C55/165	2500/5C50/225	
LIFT TRUCK	850	*2500/5E60/140	*2500/5C60/185	*2500/5C60/280	
GENERATOR-STANDBY	870	*1800/5E60/113	*1800/5C60/157	*1800/5C60/227	
FIRE PUMP (DISTRIBUTOR CERTIFIED)	881	*2500/5E60/140	*2500/5C60/185	*2500/5C60/280	
STANDBY PUMP	890	*2500/5E60/140	*2500/5C60/185	*2500/5C60/280	
STREET SWEEPER	900	*2500/5E60/140	*2500/5C60/185	*2500/5C60/280	
SAW MILL	920	*2500/5E60/140	*2500/5C60/185	*2500/5C60/280	
WINCH OR YARDER	930	*2500/5E60/140	*2500/5C60/185	*2500/5C60/280	
MILITARY ENGINE	940	*2500/5E60/140	*2500/5C60/185	2800/ C70/350	
PLANING MILL	960	2500/5E55/120	2500/5C55/165	2500/5C55/250	
LOG SKIDDER (CABLE)	970	2500/5E60/140	2500/5C60/185	2500/5C55/250	
CRAWLER TRANSPORTER	971	2500/5E60/140	2500/5C60/185	2500/5C60/280	
LOG SKIDDER (CRAWLER)	972	2500/5E55/120	2500/5C55/165	2500/5C50/225	
LOG SKIDDER (GRAPPLE)	973	2500/5E60/140	2500/5C60/185	2500/5C50/225	
AIRCRAFT TOW TRACTOR	980	*2500/5E60/140	*2500/5C60/165	*2500/5C60/280	

* INDICATES 65 cumm INJECTORS CAN BE USED IN THIS APPLICATION WHEN THEY BECOME AVAILABLE IN MID 1985.

SLOWER ENGINE RPM WITH SMALLER INJECTORS WILL GENERALLY PROVIDE LONGER ENGINE LIFE, LOWER NOISE LEVELS, AND REDUCED FUEL CONSUMPTION.

L71 & V71 MAXIMUM ENGINE SPEED AND INJECTOR SIZE
(2 VALVE HEAD)

APPLICATION	CODE NO.	RATING	2-71N 2V	3, 4, 6-71N 2V	6V & 12V-71N 2V	REMARKS
STOCK ENGINE	000	MAX	2000/N60	2100/N65	*2100/N60	*6V-71N ONLY
DITCHERS, EXCAVATORS, SHOVELS & TRENCHERS	050	MAX	2000/N65	2100/N65	-	
CRANES	070	MAX	-	2300/N65	*2100/71C5	*12V-71N ONLY
TRACTOR-RUBBER TIRE	090	MAX	2000/N65	2100/N65	-	
GRADER	130	MAX	2000/N70	2300/N65	#2300/N60	#6V-71N ONLY
		MAX	-	*2300/N70	-	*4-71N ONLY
SCRAPER	140	MAX	2000/N65	2100/N65	-	
COMPACTOR-VIBRATORY & NON VIBRATORY	160	MAX	2000/N65	2100/N65	-	
REAR DUMP TRUCK	170	MAX	-	2100/N65	-	
LOADER FRONT END (WHEEL)	180	MAX	2000/N65	2300/N65	-	
LOADER FRONT END (CRAWLER)	183	MAX	2000/N65	-	-	
AIR COMPRESSOR STATIONARY	200	REC	1800/(C)	1800/(C)	-	(C) CONT.
		MAX	2000/N65	1800/N55	-	RATING
PORTABLE-NOT MULTIPLE MANIFOLDED	210	MAX	2000/N65	2100/N65	-	
DISTILLATION UNIT SEAWATER	213	MAX	1800/N60	-	-	
CRUSHER & HAMMER MILL	220	MAX	1800/N60	1800/N60	-	
SNOW BLOWER (INDUSTRIAL)	225	MAX	-	-	*2100/71C5	*12V-71N ONLY
ASPHALT & CONCRETE MIXER	230	MAX	1900/N60	1900/N60	-	
PAVER-ASPHALT AND CONCRETE	240	MAX	2000/N60	2100/N60	-	
ROAD BASE PREPARATION	250	MAX	-	2100/N65	-	
DRILL-AIR	270	MAX	2000/N60	2100/N60	*2100/71C5	*12V-71N ONLY
AIR COMPRESSOR PORTABLE-AIRCRAFT JET STARTER ONLY	280	MAX	2000/N65	2300/N65	-	
ROAD ROLLER	290	MAX	2000/N65	2100/N65	-	
MARINE MAXIMUM RATING GOVERNMENT	440	MAX	-	2100/N60	-	
BARGE & DREDGE PUMP	470	REC	1800/(C)	-	-	(C) CONT
		MAX	2000/N60	-	-	RATING
SHIP EMERGENCY STANDBY POWER	480	MAX	1800/N70	2000/N70	-	

L71 & V71 (2V) - 1
(08-01-84)

WPD 0945A

3, 4, 6-71, 3, 4, 6-71N AND 6V-71N (2V) TAB

L71 & V71 MAXIMUM ENGINE SPEED AND INJECTOR SIZE
(2 VALVE HEAD)

APPLICATION	CODE NO.	RATING	2-71N 2V	3, 4, 6-71N 2V	6V & 12V-71N 2V	REMARKS
SHIP SERVICE PRIME POWER	481	MAX	1800/N60	1800/N60	-	
REEFER	510	MAX	1800/N55	1800/N55	-	
RAILCAR-PROPULSION	520	MAX	2000/N65	2100/N65	-	
ROAD LOCOMOTIVE	530	MAX	1800/N60	1800/N55	-	
RAILWAY MAINTENANCE	540	MAX	2000/N60	2100/N60	-	
SWITCHER	550	MAX	2000/N65	2100/N60	-	
FARM TRACTOR-2WD	610	MAX	2000/N65	2100/N65	-	
FARM TRACTOR-4WD	611	MAX	-	2100/N65	-	
FEED OR GRAIN MILL	620	MAX	2000/N65	2100/N60	-	
SPRAYER	630	MAX	2000/N65	2100/N65	-	
COTTON GIN	650	MAX	1900/N60	1900/N60	-	
HARVESTER-COMBINE	660	MAX	2000/N65	2100/N65	-	
DRY BULK BLOWER-PORTABLE	670	MAX	2000/N65	2200/N65	-	
DRILL RIG-PORTABLE	710	MAX	2000/N60	-	2100/71C5	
DREDGE, LINE, MUD, MUNICIPAL PUMP	720	REC	1800/(C)	-	-	(C) CONT. RATING
		MAX	1800/N55	-	-	
FRACTURING OIL OR CEMENT PUMP	730	MAX	2000/N65	-	-	
DRILL TABLE	740	REC	1800/(C)	-	-	(C) CONT. RATING
		MAX	1800/N55	-	-	
DRAW WORKS	750	MAX	2000/N65	2100/N65	-	
GENERATOR PRIME POWER GOVERNMENT	810	MAX	1800/N60	1800/N60	-	
GENERATOR STANDBY POWER TACTICAL GOV'T	811	MAX	2000/N70	2000/N70	-	
GENERATOR PRIME POWER COMMERCIAL BUILDING	820	MAX	1800/N60	1800/N60	-	
EXCAVATORS & CRANES ELECTRIC	825	MAX	1800/N70	1800/N60	-	
WELDER	830	MAX	2000/N70	2100/N65	-	
IRRIGATION PUMP	840	MAX	2000/N60	2100/N60	-	
LIFT TRUCK	850	MAX	-	1800/N55	-	
GENERATOR STANDBY COMMERCIAL BUILDING	870	MAX	2000/N70	2000/N70	-	
FIRE PUMP VERTICAL TURBINE (DISTRIBUTOR CERTIFIED)	882	MAX	-	2350/N70	-	
STAND BY PUMP	890	MAX	2000/N70	2300/N70	-	
UNDERGROUND	911	MAX	2000/N55	-	-	
SAW MILL	920	MAX	2000/N65	2100/N65	-	
WINCH & YARDER	930	MAX	2000/N65	2100/N65	-	
ACCREDITED EDUCATIONAL INSTITUTIONS	950	MAX	1800/N60	1800/N60	*2100/N60	*6V-71N ONLY
PLANING MILL	960	MAX	1800/N60	-	-	
LOG SKIDDER	970	MAX	2000/N65	2100/N65	-	
AIRCRAFT TOW TRACTOR	980	MAX	2000/N65	2100/N65	-	

L71 & V71 (2V) - 2
(08-01-84)

L71 & V71 MAXIMUM ENGINE SPEED AND INJECTOR SIZE
(2 VALVE HEAD)

APPLICATION	CODE NO.	RATING	2-71N 2V	3, 4, 6-71N 2V	6V & 12V-71N 2V	REMARKS
SHIP SERVICE PRIME POWER	481	MAX	1800/N60	1800/N60	-	
REEFER	510	MAX	1800/N55	1800/N55	-	
RAILCAR-PROPULSION	520	MAX	2000/N65	2100/N65	-	
ROAD LOCOMOTIVE	530	MAX	1800/N60	1800/N55	-	
RAILWAY MAINTENANCE SWITCHER	540	MAX	2000/N60	2100/N60	-	
FARM TRACTOR-2WD	550	MAX	2000/N65	2100/N60	-	
FARM TRACTOR-4WD	610	MAX	2000/N65	2100/N65	-	
FARM TRACTOR-4WD	611	MAX	-	2100/N65	-	
FEED OR GRAIN MILL	620	MAX	2000/N65	2100/N60	-	
SPRAYER	630	MAX	2000/N65	2100/N65	-	
COTTON GIN	650	MAX	1900/N60	1900/N60	-	
HARVESTER-COMBINE	660	MAX	2000/N65	2100/N65	-	
DRY BULK BLOWER-PORTABLE	670	MAX	2000/N65	2200/N65	-	
DRILL RIG-PORTABLE	710	MAX	2000/N60	-	2100/71C5	
DREDGE, LINE, MUD, MUNICIPAL PUMP	720	REC	1800/(C)	-	-	(C) CONT. RATING
FRACTURING OIL OR CEMENT PUMP	730	MAX	1800/N55	-	-	
DRILL TABLE	740	MAX	2000/N65	-	-	
		REC	1800/(C)	-	-	(C) CONT. RATING
		MAX	1800/N55	-	-	
DRAW WORKS	750	MAX	2000/N65	2100/N65	-	
GENERATOR PRIME POWER GOVERNMENT	810	MAX	1800/N60	1800/N60	-	
GENERATOR STANDBY POWER TACTICAL GOV'T	811	MAX	2000/N70	2000/N70	-	
GENERATOR PRIME POWER COMMERCIAL BUILDING	820	MAX	1800/N60	1800/N60	-	
EXCAVATORS & CRANES ELECTRIC	825	MAX	1800/N70	1800/N60	-	
WELDER	830	MAX	2000/N70	2100/N65	-	
IRRIGATION PUMP	840	MAX	2000/N60	2100/N60	-	
LIFT TRUCK	850	MAX	-	1800/N55	-	
GENERATOR STANDBY COMMERCIAL BUILDING	870	MAX	2000/N70	2000/N70	-	
FIRE PUMP VERTICAL TURBINE (DISTRIBUTOR CERTIFIED)	882	MAX	-	2350/N70	-	
STAND BY PUMP	890	MAX	2000/N70	2300/N70	-	
UNDERGROUND	911	MAX	2000/N55	-	-	
SAW MILL	920	MAX	2000/N65	2100/N65	-	
WINCH & YARDER	930	MAX	2000/N65	2100/N65	-	
ACCREDITED EDUCATIONAL INSTITUTIONS	950	MAX	1800/N60	1800/N60	*2100/N60	*6V-71N ONLY
PLANING MILL	960	MAX	1800/N60	-	-	
LOG SKIDDER	970	MAX	2000/N65	2100/N65	-	
AIRCRAFT TOW TRACTOR	980	MAX	2000/N65	2100/N65	-	

L71 & V71 (2V) - 2
(08-01-84)

L71 & V71N MAXIMUM ENGINE SPEED AND INJECTOR SIZE
(4 VALVE HEAD)

APPLICATION	CODE NO.	RATING	3, 4, 6-71	*6, 8, 12 & *16V-71N	REMARKS
STOCK ENGINE	000	MAX	2100/N65	2100/N65	
DITCHERS, EXCAVATORS, SHOVELS & TRENCHERS	050	MAX	2100/N65	2100/N65	
CRANES	070	MAX	2300/N65	2300/N65	
		MAX	-	*2100/C65	16V-71N ONLY
HOIST WIRELINE	072	MAX	2100/N65	-	
TRACTOR & RUBBER TIRE	090	MAX	2100/N65	2100/N65	
TRACTOR-CRAWLER	110	MAX	2100/N60	2100/N60	
BOTTOM DUMP TRUCK	120	MAX	2100/N60	2100/N60	
GRADER	130	MAX	2300/N65	2300/N65	
		MAX	-	*2100/N65	16V-71N ONLY
SCRAPER	140	MAX	2100/N65	2100/N65	
COAL HAULER	150	MAX	2100/N65	2100/N65	
COMPACTOR-VIBRATORY & NON VIBRATORY	160	MAX	2100/N65	2100/N65	
REAR DUMP TRUCK	170	MAX	2100/N65	2100/N65	
LOADER-FRONT END (WHEEL)	180	MAX	2300/N65	*2100/C65	*16V-71N ONLY
		MAX	-	#2300/N65	#6 & 8-71N ONLY
LOG STACKER	181	MAX	2100/N65	2100/N65	
WOOD HARVESTER	182	MAX	+2300/N65	*2300/N65	+6-71N ONLY
					*6 & 8-71N ONLY
AIR COMPRESSOR STATIONARY	200	REC	1800/(C)	1800/(C)	(C) CONTINUOUS RATING
		MAX	1800/N55	2100/N55	
PORTABLE-NOT MULTIPLE MANIFOLDED	210	MAX	2200/N65	2200/N65	
		MAX	-	*2100/C65	*16V-71N ONLY
PORTABLE-MULTIPLE MANIFOLDED	211	REC	1800/(C)	1800/(C)	(C) CONTINUOUS RATING
		MAX	1800/N55	1800/N55	
DISTILLATION UNIT (SEAWATER)	213	MAX	1800/N60	-	
GROUND SUPPORT	215	MAX	2100/N70	2100/N70	
PORTABLE HEATER UNIT/AIR CONDITIONING					
AIRPORT CRASH VEHICLE	216	MAX	-	2300/N70	
		MAX	-	*2100/N70	*16V-71N ONLY
CRUSHER OR HAMMER MILL	220	MAX	1800/N60	1800/N60	
CRUSHER AUTO HYD.	222	MAX	2100/N70	*2100/N70	*6, 8 & 12V-71N ONLY
WATER BLASTER	223	MAX	*2100/N65	-	*4 & 6-71N ONLY
SNOW BLOWER (INDUSTRIAL)	225	MAX	2100/N65	2100/N65	
ASPHALT OR CONCRETE MIXER	230	MAX	1900/N60	1900/N60	
PAVER-ASPHALT & CONCRETE	240	MAX	2100/N60	2100/N60	
ROAD BASE PREPARATION	250	MAX	2100/N65	2100/N65	
DRILL-AIR	270	MAX	2100/N65	2100/N65	
AIR COMPRESSOR	280	MAX	2300/N70	2300/N70	
PORTABLE-AIRCRAFT JET STARTER ONLY		MAX	-	*2100/N70	*16-71N ONLY
ROAD ROLLER	290	MAX	2100/N65	2100/N65	
GAS TURBINE STARTER (JET FUEL ONLY)	295	MAX	-	*2300/N70	*6, 8 & 12V-71N ONLY

* ON 6&16V-71Ns USE C65 INJECTORS IN PLACE OF N65 INJECTORS

ON 8V-71N USE C65 INJECTORS

L71 & V-71N (4V) - 1
(08-01-84)

L71 & V71N MAXIMUM ENGINE SPEED AND INJECTOR SIZE
(4 VALVE HEAD)

APPLICATION	CODE NO.	RATING	3, 4, 6-71	*6, 8, 12 & *16V-71N	REMARKS
MARINE MAXIMUM RATING PLEASURE CRAFT	410	MAX	*2300/N80	2300/N70	*4 & 6-71M ONLY
MARINE INTERMITTENT RATING-FISHING	421	MAX	2100/N65	2100/N65	
MARINE CONTINUOUS RATING-FISHING	422	MAX	1800/N55	1800/N55	
MARINE MAXIMUM RATING COMMERCIAL	430	MAX	*2300/N70	2300/N70	*4 & 6-71N ONLY
MARINE INTERMITTENT RATING-COMMERCIAL	431	MAX	2100/N65	2100/N65	
MARINE MAXIMUM RATING GOVERNMENT	440	MAX	*2300/N80	2300/N70	*4 & 6-71M ONLY
MARINE CONTINUOUS RATING GOVERNMENT	442	MAX	-	*1800/N55	*6,8 & 12V-71N ONLY
MARINE CONTINUOUS RATING-COMMERCIAL	452	MAX	1800/N55	1800/N55	
BARGE & DREDGE PUMP	470	MAX	1800/N55	1800/N60	
SHIP EMERGENCY STANDBY POWER	480	MAX	2000/N70	*2000/N70	*8,12 & 16V-71N ONLY
SHIP SERVICE PRIME POWER	481	MAX	1800/N60	1800/N60	
REEFER	510	MAX	1800/N55	1800/N55	
RAILCAR-PROPULSION	520	MAX	2100/N60	2100/N60	
ROAD LOCOMOTIVE	530	MAX	1800/N55	1800/N55	
RAILWAY MAINTENANCE	540	MAX	2100/N65	2100/N65	
RAILWAY MAINTANANCE-ELECTRICAL	541	MAX	1800/N65	-	
SWITCHER	550	MAX	2100/N65	2100/N65	
FARM TRACTOR-2WD	610	MAX	2100/N65	2100/N65	
FARM TRACTOR-4WD	611	MAX	2100/N65	2100/N65	
FEED OR GRAIN MILL	620	MAX	2100/N60	2100/N60	
SPRAYER	630	MAX	2100/N65	2100/N60	
		MAX	-	*2100/N65	*12V-71N ONLY
COTTON GIN	650	MAX	1900/N60	1900/N60	
HARVESTER-COMBINE	660	MAX	2100/N65	2100/N65	*4 & 6-71N ONLY
		MAX	*2300/N70	+2300/N70	+6V-71N ONLY
DRY BULK BLOWER-PORTABLE	670	MAX	2200/N65	2200/N65	
		MAX	-	*2100/C65	*16V-71N ONLY
AGRICULTURAL SPREADER	680	MAX	2100/N65	*2100/N65	*6V & 8V-71N ONLY
DRILL RIG-PORTABLE	710	MAX	2100/N65	2100/N65	
DREDGE, LINE, MUD, MUNICIPAL PUMP	720	REC	1800/(C)	1800/(C)	(C) CONTINUOUS RATING
		MAX	1800/N55	1800/N55	

* ON 6&16V-71Ns USE C65 INJECTORS IN PLACE OF N65 INJECTORS

L71 & V71N MAXIMUM ENGINE SPEED AND INJECTOR SIZE
(4 VALVE HEAD)

APPLICATION	CODE NO.	RATING	3, 4, 6-71	*6, 8, 12 & *16V-71N	REMARKS
FRACTURING OIL OR CEMENT PUMP	730	MAX	2300/N70	2300/N70	
DRILL TABLE	740	MAX	-	*2100/N70	*16-71N ONLY
		REC	1800/(C)	1800/(C)	(C) CONTINUOUS
		MAX	1800/N55	1800/N55	RATING
DRAW WORKS	750	MAX	2100/N65	2100/N65	
GROUND POWER UNIT	809	MAX	*2180/N65	+2180/N65	*4 & 6-71N ONLY
AIRCRAFT		MAX	#2180/N70	-	#6-71N ONLY
					+6 & 8V-71N ONLY
GENERATOR PRIME POWER GOVERNMENT	810	MAX	1800/N60	1800/N60	
GENERATOR STANDBY POWER TACTICAL GOV'T	811	MAX	2000/N70	*2000/N70	*8, 12 & 16V-71N ONLY
GENERATOR PRIME POWER	820	MAX	1800/N60	1800/N60	
		MAX	-	*1500/N65	*12V-71N ONLY
EXCAVATORS & CRANES	825	MAX	2100/N65	*1800/N65	*8, 12 & 16V-71N ONLY
HYD. & NON HYD.					
WELDER	830	MAX	2100/N65	*2100/N65	*6, 8 & 12V-71N ONLY
IRRIGATION PUMP	840	MAX	2100/N60	2100/N60	
LIFT TRUCK	850	MAX	2300/N65	2100/N65	
		MAX	-	*2300/N65	*6, 8 & 12V-71N ONLY
GENERATOR STANDBY POWER	870	MAX	2000/N70	*2000/N70	*8, 12 & 16V-71N ONLY
FIRE PUMP	881	MAX	2300/N70	2300/N70	
(DISTRIBUTOR CERTIFIED)		MAX	-	*2100/N70	16V-71N ONLY
FIRE PUMP-VERTICAL TURBINE	882	MAX	2350/N70	-	
(DISTRIBUTOR CERTIFIED)					
STANDBY PUMP	890	MAX	2300/N70	2300/N70	
		MAX	-	*2100/N70	16V-71N ONLY
STREET SWEEPER	900	MAX	*2100/N65	@2100/N65	*4 & 6-71N ONLY
					@6 & 8V-71N ONLY
UNDERGROUND	911	MAX	2100/N55	*2100/N55	*6, 8 & 12V-71N ONLY
SAW MILL	920	MAX	2100/N65	2100/N65	
WINCH OR YARDER	930	MAX	2100/N70	*2100/N70	*6, 8 & 12V-71N ONLY
MILITARY ENGINE	940	MAX	*2300/N70	#2300/N70	*4-71N ONLY
					#6V-71N ONLY
ACCREDITED EDUCATIONAL INSTITUTIONS	950	MAX	2100/N65	-	
PLANING MILL	960	MAX	1800/N60	1800/N60	
LOG SKIDDER	970	MAX	2100/N65	2100/N65	
CRAWLER TRANSPORTER	971	MAX	2100/N65	2100/N65	
AIRCRAFT TOW TRACTOR	980	MAX	2100/N65	2100/N65	

* ON 6&16V-71Ns USE C65 INJECTORS IN PLACE OF N65 INJECTORS

L71 & V71N MAXIMUM ENGINE SPEED AND INJECTOR SIZE
(4 VALVE HEAD)

APPLICATION	CODE NO.	RATING	3, 4, 6-71	*6, 8, 12 & *16V-71N	REMARKS
GENERATOR STANDBY POWER	870	REC MAX	1800/N70 2000/N70	#1800/N70 #2000/N70	#NO 6V-71N
FIRE PUMP (FACTORY CERTIFIED)	880	MAX	2100/N65	*2100/N70	*8V-71N ONLY
FIRE PUMP (DISTRIBUTOR CERTIFIED)	881	REC MAX	2100/N65 2300/N70	2100/N65 *2300/N70	*2100 RPM -16V-71N
STANDBY PUMP	890	REC MAX	2100/N65 2300/N70	2100/N65 *2300/N70	*2100 RPM -16V-71N
STREET SWEEPER	900	REC MAX	+2100/N60 +2100/N65	@2100/N60 @2100/N65	+4, 6-71 ONLY @6, 8V-71 ONLY
UNDERGROUND	911	REC MAX	2100/71N5 2100/N55	2100/71N5 2100/N55	
SAW MILL	920	REC MAX	1800/N60 2100/N65	1800/N60 2100/N65	
WINCH OR YARDER	930	REC MAX	2100/N65 2100/N70	2100/N65 2100/N70	
MILITARY ENGINE	940	MAX	*2300/N70	-	*4-71N ONLY
ACCREDITED EDUCATIONAL INSTITUTIONS	950	MAX	2100/N65	2100/N65	
PLANING MILL	960	REC MAX	1800/N55 1800/N60	1800/N55 1800/N60	
LOG SKIDDER	970	MAX	2100/N65	2100/N65	
CRAWLER TRANSPORTER	971	REC MAX	2100/N60 2100/N65	2100/N60 2100/N65	
AIRCRAFT TOW TRACTOR	980	REC MAX	2100/N60 2100/N65	2100/N60 2100/N65	

* ON 6&16V-71Ns USE C65 INJECTORS IN PLACE OF N65 INJECTORS

L71T MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	4 & 6-71T	4 & 6-71TI	REMARKS
STOCK ENGINE	000	MAX	2100/N70	-	
DITCHER, EXCAVATOR, SHOVELS & TRENCHER	050	MAX	2100/N70	-	
CRANES	070	MAX	2200/N75	-	
BACKHOE RUBBER TIRED	071	MAX	2100/N75	-	
		MAX	2300/N70	-	
HOIST WIRE LINE	072	MAX	2100/N80	-	
CRANE-OFFSHORE DRILLING	075	MAX	*2300/N80	-	*4-71T ONLY
TRACTOR-RUBBER TIRE	090	MAX	2100/N70	-	
TRACTOR-CRAWLER	110	MAX	2100/N65	-	
BOTTOM DUMP TRUCK	120	MAX	2100/N65	-	
GRADER	130	MAX	2300/N75	-	
SCRAPER	140	MAX	2100/N70	-	
COAL HAULER	150	MAX	2100/N75	-	
COMPACTOR-VIBRATORY & NON VIBRATORY	160	MAX	2100/N70	-	
REAR DUMP TRUCK	170	MAX	2100/N75	-	
LOADER-FRONT END (WHEEL)	180	MAX	2300/N75	-	
LOG STACKER	181	MAX	2100/N75	-	
LOADER-FRONT END (CRAWLER)	183	MAX	2300/N70	-	
AIR COMPRESSOR PORTABLE-NOT MULTIPLE MANIFOLDED	210	MAX	2200/N70	-	
PORTABLE-MULTIPLE MANIFOLDED	211	MAX	2100/N65	-	
CRUSHER OR HAMMER MILL	220	MAX	1800/N65	-	
SNOW BLOWER (INDUSTRIAL)	225	MAX	2100/N70	-	
INDUSTRIAL VACUUM-PORTABLE	233	MAX	2100/N70	-	
PAVER-ASPHALT & CONCERT	240	MAX	2100/N65	-	
ROAD BASE PREPARATION	250	MAX	2100/N65	-	
AIR COMPRESSOR PORTABLE-AIRCRAFT JET STARTER ONLY	280	MAX	2300/N75	-	
MARINE MAXIMUM RATING PLEASURE CRAFT	410	MAX	-	#2300/7N95	
MARINE INTERMITTENT RATING-FISHING	421	MAX	-	#2100/N70	
MARINE MAXIMUM RATING COMMERCIAL	430	MAX	-	#2100/N90	
MARINE INTERMITTENT RATING GOVERNMENT	431	MAX	-	#2100/N70	
MARINE MAXIMUM RATING GOVERNMENT	440	MAX	-	#2100/N90	
BARGE OR DREDGE PUMP	470	MAX	1800/N65	-	
SHIP EMERGENCY STANDBY POWER	480	MAX	1800/M95	-	
SHIP SERVICE PRIME POWER	481	MAX	1800/M95	-	

4-71TI AVAILIABLE AS A DISTRIBUTOR CONVERSION MODEL ONLY

L71T - 1
(08-01-84)

L71T MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	4 & 6-71T	4 & 6-71TI	REMARKS
REEFER	510	MAX	*2100/N70	-	*6-71T ONLY
RAILCAR-PROPULSION	520	MAX	*2100/N70	-	*6-71T ONLY
RAILWAY MAINTENANCE	540	MAX	*2100/N70	-	*4-71T ONLY
		MAX	*1600/N75	-	
RAILWAY MAINTENANCE ELECTRICAL	541	MAX	1800/N70	-	
SWITCHER	550	MAX	2100/N70	-	
FARM TRACTOR-2WD	610	MAX	2100/N70	-	
FARM TRACTOR-2WD	611	MAX	2100/N70	-	
FEED OR GRAIN MILL	620	MAX	2100/N70	-	
SPRAYER	630	MAX	2100/N75	-	
COTTON GIN	650	MAX	2100/N70	-	
HARVESTER-CANE	655	MAX	*2100/N75	-	
HARVESTER-COMBINE	660	MAX	2300/N70	-	
DRY BULK BLOWER-PORTABLE	670	MAX	2100/N70	-	
AGRICULTURAL SPREADER	680	MAX	2100/N75	-	
DRILL RIG-PORTABLE	710	MAX	2100/N70	-	
FRACTURING OIL OR CEMENT PUMP	730	MAX	2300/N75	-	
DRAW WORKS	750	MAX	2100/N75	-	
GROUND POWER UNIT	809	MAX	2180/N75	-	
AIR CRAFT					
GENERATOR PRIME POWER GOVERNMENT	810	MAX	1800/M95	-	
GENERATOR STANDBY POWER TACTICAL GOV'T	811	MAX	1800/M95	-	
GENERATOR PRIME POWER COMMERCIAL BUILDING	820	MAX	1800/M95	-	
EXCAVATORS & CRANES ELECTRIC	825	MAX	1800/N75	-	
IRRIGATION PUMP	840	MAX	2100/N65	-	
LIFT TRUCK	850	MAX	2100/N75	-	
		MAX	*2300/N75	-	*4-71T ONLY
GENERATOR STANDBY COMMERCIAL BUILDING	870	MAX	1800/M95	-	
FIRE PUMP (DISTRIBUTOR CERTIFIED)	881	MAX	2300/M95	-	
FIRE PUMP VERTICAL TURBINE (DISTRIBUTOR CERTIFIED)	882	MAX	2350/M95	-	
STANDBY PUMP	890	MAX	2300/N80	-	
WINCH OR YARDER	930	MAX	2100/N75	-	
ACCREDITED EDUCATIONAL INSTITUTIONS	950	MAX	2100/N70	-	
AIRCRAFT TOW TRACTOR	980	MAX	2300/N75	-	

V71T MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE	RATING	6 & 8V-71T	12 & 16V-71T	REMARKS
STOCK ENGINE	000	MAX	2100/N70	2100/N70	
DITCHER, EXCAVATOR, SHOVEL & TRENCHER	050	MAX	2100/N70	2100/N70	
CRANES	070	MAX	2100/N75	2100/N75	
BACKHOE RUBBER TIRED	071	MAX	2100/N75	-	
		MAX	2300/N70	-	
TRACTOR-RUBBER TIRE	090	MAX	2100/N70	*2100/N70	*16V-71T ONLY
TRACTOR-CRAWLER	110	MAX	2100/N65	2100/N65	
BOTTOM DUMP TRUCK	120	MAX	2100/N65	2100/N65	
GRADER	130	MAX	2300/N70	2100/N70	
SCRAPER	140	MAX	2100/N70	2100/N70	*8V-71T ONLY
		MAX	*2100/N75	@2100/N75	@12V-71T ONLY
COAL HAULER	150	MAX	2100/N75	*2100/N75	*16V-71T ONLY
COMPACTOR VIBRATORY & NON VIBRATORY	160	MAX	2100/N70	2100/N70	
REAR DUMP TRUCK	170	MAX	2100/N75	2100/N75	
LOADER-FRONT END (WHEEL)	180	MAX	2300/N75	2100/N75	
LOG STACKER	181	MAX	2100/N75	*2100/N75	*12V-71T ONLY
LOADER-FRONT END (CRAWLER)	183	MAX	2300/N70	2100/N70	
AIR COMPRESSOR	210	MAX	2200/N70	2100/N70	
PORTABLE-NOT MULTIPLE MANIFOLDED		MAX	-	*2200/N70	*12V-71T ONLY
PORTABLE-MULTIPLE MANIFOLDED	211	MAX	2100/N65	*2100/N65	*16V-71T ONLY
GROUND SUPPORT	215	MAX	2100/N70	2100/N70	
PORTABLE HEATER UNIT/AIR CONDITIONING	216	MAX	2300/N75	2100/N75	
AIRPORT CRASH VEHICLE		MAX	-	*2300/N75	*12V-71T ONLY
CRUSHER OR HAMMER MILL	220	MAX	1800/N65	1800/N65	
SNOW BLOWER (INDUSTRIAL)	225	MAX	2100/N70	2100/N70	*8V-71T ONLY
		MAX	*2300/N80	@2100/N75	@12V-71T ONLY
SNOW BLOWER (INDUSTRIAL- LOAD CONTROLLED)	226	MAX	-	2100/N75	
EXHAUST FAN	235	MAX	2100/N70	2100/N70	
OVERHEAD LIFT (SKI LIFT)	245	MAX	-	*2100/N75	*12V-71T ONLY
ROAD BASE PREPARATION	250	MAX	2100/N65	2100/N65	
ROAD RESURFACING	251	MAX	2100/N75	2100/N75	
DRILL-AIR	270	MAX	2100/N70	2100/N70	
HYDRAULIC PUMP FOR PILE DRIVER	275	MAX	*2100/7C75	-	*6V-71T ONLY
AIR COMPRESSOR	280	MAX	2300/N75	2100/N75	
PORTABLE-AIRCRAFT JET STARTER ONLY					
GAS TURBINE STARTER	295	MAX	2300/M95	2100/M95	
		MAX	-	*2300/M95	*12V-71T ONLY
SHIP EMERGENCY STANDBY POWER	480	MAX	1800/M95	1800/M95	

V71T - 1
(08-01-84)

V71T MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE	RATING	6 & 8V-71T	12 & 16V-71T	REMARKS
SHIP SERVICE PRIME POWER	481	MAX	1800/M95	1800/M95	
ROAD LOCOMOTIVE	530	MAX	1800/N55	1800/N55	
RAILWAY MAINTENANCE ELECTRICAL	541	MAX	1800/N70	1800/N70	
RAILWAY BRUSH CUTTER	545	MAX	1800/N75	-	
SWITCHER	550	MAX	2100/N70	2100/N70	
RAILCAR MOLTEN STEEL CARRIER	560	MAX	2100/N75	*2100/N75	*12V-71T ONLY
FARM TRACTOR-2WD	610	MAX	2100/N70	2100/N70	
FARM TRACTOR-2WD	611	MAX	2100/N70	2100/N70	
HARVESTER-COMBINE	660	MAX	2100/N70	2100/N70	
		MAX	*2300/N70	-	*8V-71T ONLY
DRY BULK BLOWER-PORTABLE	670	MAX	2100/N70	2100/N70	
AGRICULTURAL SPREADER	680	MAX	2100/N75	-	
DRILL RIG-PORTABLE	710	MAX	2100/N70	2100/N70	
DREDGE, LINE, MUD, MUNICIPAL PUMP	720	MAX	1800/N65	1800/N65	
FRACTURING OIL OR CEMENT PUMP	730	MAX	2300/N75	2100/N75	
		MAX	-	*2300/N75	*12V-71T ONLY
DRAW WORKS	750	MAX	2100/N75	2100/N75	
GROUD SUPPORT UNIT (AIRCRAFT)	809	MAX	1800/M95	-	
GENERATOR PRIME POWER GOVERNMENT	810	MAX	1800/M95	1800/M95	
GENERATOR STANDBY POWER TACTICAL GOV'T	811	MAX	1800/M95	1800/N90	
		MAX	-	*1800/M95	*12V-71T ONLY
GENERATOR PRIME POWER COMMERCIAL BUILDING	820	MAX	1800/M95	1800/M95	
EXCAVATORS & CRANES ELECTRIC	825	MAX	*1800/N75	1800/N75	*8V-71T ONLY
IRRIGATION PUMP	840	MAX	2100/N65	*2100/N65	*16V-71T ONLY
LIFT TRUCK	850	MAX	2100/N75	-	
GENERATOR STANDBY COMMERCIAL BUILDING	870	MAX	1800/M95	1800/M95	
FIRE PUMP (DISTRIBUTOR CERTIFIED)	881	MAX	2300/M95	2100/M95	
		MAX	-	*2300/M95	*12V-71T ONLY
FIRE PUMP VERTICAL TURBINE (DISTRIBUTOR CERTIFIED)	882	MAX	2350/M95	2300/M95	
STANDBY PUMP	890	MAX	2300/N80	2300/N80	
WINCH OR YARDER	930	MAX	2100/N75	2100/N70	
		MAX	-	*2100/N75	*16V-71T ONLY
MILITARY ENGINES	940	MAX	*2100/N75	-	*8V-71T ONLY
AIRCRAFT TOW TRACTOR	980	MAX	2300/N75	2100/N75	
		MAX	-	*2300/N75	*12V-71T ONLY

V71T - 2
(08-01-84)

V71T MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE	RATING	6 & 8V-71TA	12 & 16V-71TA	REMARKS
LOADER-FRONT END (WHEEL)	180	MAX	-	*2300/N65	*12V-71TA ONLY
AIR COMPRESSOR PORTABLE-NOT MULTIPLE MANIFOLD	210	MAX	*2100/7C70	-	*8V-71TA ONLY
GROUND SUPPORT PORTABLE HEATER UNIT/AIR CONDITIONING	215	MAX	*2100/N70	-	*8V-71TA ONLY
SNOW BLOWER-INDUSTRIAL	225	MAX	*2300/N80	-	*8V-71TA ONLY
HYDRAULIC PUMP FOR PILE DRIVER	275	MAX	-	*2100/7C75	*12V-71TA ONLY
MARINE MAXIMUM RATING PLEASURE CRAFT	410	MAX	*2300/9215	-	*6V-71TA ONLY
SHIP SERVICE PRIME POWER	481	MAX	-	1800/M95	
GENERATOR PRIME POWER GOVERNMENT	810	MAX	-	1800/M95	
GENERATOR PRIME POWER COMMERCIAL BUILDING	820	MAX	-	1800/M95	

APPLICATION	CODE	RATING	6 & 8V-71TI	12 & 16V-71TI	REMARKS
TRACTOR-CRAWLER	110	MAX	2100/N65	*2100/N65	*12V-71TI ONLY
REAR DUMP TRUCK	170	MAX	-	*2100/N90	*16V-71TI ONLY
LOADER-FRONT END (WHEEL)	180	MAX	-	*2100/N90	*16V-71TI ONLY
MARINE MAXIMUM RATING PLEASURE CRAFT	410	MAX	2300/N90	2100/N90	
MARINE INTERMITTENT RATING-FISHING	421	MAX	2100/N70	2100/N70	*12V-71TI ONLY
MARINE MAXIMUM RATING COMMERICAL	430	MAX	2300/N90	2100/N90	
MARINE INTERMITTENT RATING-COMMERICAL	431	MAX	2100/N70	2100/N70	*12V-71TI ONLY
MARINE MAXIMUM RATING GOVERNMENT	440	MAX	*2300/140	2100/N90	*8V-71TI ONLY
FRACTURING OIL OR CEMENT PUMP	730	MAX	-	@2300/N90	@12V-71TI ONLY
STANDBY PUMP	890	MAX	-	*2100/N90	*16V-71TI ONLY
				*2300/N80	12V-71TI ONLY

V92 MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	6 & 8V-92N	12 & 16V-92N	REMARKS
STOCK ENGINE	000	MAX	2100/9280	2100/9280	
DITCHER, EXCAVATORS, SHOVEL & TRENCHER	050	MAX	2100/9280	*2100/9280	*16V-92N ONLY
CRANES	070	MAX	2100/9285	2100/9280	
		MAX	2300/9280	-	
BACKHOE RUBBER TIRED	071	MAX	2100/9285	*2100/9280	*12V-92N ONLY
		MAX	2300/9280	-	
TRACTOR-CRAWLER	110	MAX	2100/9280	2100/9280	
BOTTOM DUMP TRUCK	120	MAX	2100/9280	2100/9280	
GRADER	130	MAX	2100/9280	2100/9280	
SCRAPER	140	MAX	2100/9280	2100/9280	
COAL HAULER	150	MAX	2100/9280	2100/9280	
COMPACTOR-VIBRATORY & NON VIBRATORY	160	MAX	2100/9280	2100/9280	
REAR DUMP TRUCK	170	MAX	2100/9280	2100/9280	
LOADER-FRONT END	180	MAX	2300/9280	2100/9280	
LOG STACKER	181	MAX	2100/9280	*2100/9280	*12V-92N ONLY
WOOD HARVESTER	182	MAX	2300/9280	*2100/9280	*12V-92N ONLY
LOADER-FRONT END (CRAWLER)	183	MAX	2300/9280	2100/9280	
AIR COMPRESSOR STATIONARY	200	REC	1800/(C)	1800/(C)	(C) CONT. RATING
PORTABLE-NOT MULTIPLE MANIFOLDED	210	MAX	1800/9275	1800/9275	
PORTABLE-MULTIPLE MANIFOLDED	211	REC	1800/(C)	-	(C) CONT. RATING
		MAX	1800/9275	-	
GROUND SUPPORT	215	MAX	2100/9285	*2100/9280	*12V-92N ONLY
PORTABLE HEATER UNIT/AIR CONDITIONING					
CRUSHER OR HAMMER MILL	220	MAX	1800/9280	1800/9280	
WATER BLASTER	223	MAX	-	2100/9280	
SNOW BLOWER (INDUSTRIAL)	225	MAX	2100/9280	2100/9280	
ASPHALT OR CONCRETE MIXER	230	MAX	1900/9280	1900/9280	
PAVER-ASPHALT & CONCRETE	240	MAX	2100/9280	*2100/9280	*16V-92N ONLY
ROAD BASE PREPARATION	250	MAX	2100/9280	*2100/9280	*16V-92N ONLY
DRILL-AIR	270	MAX	2100/9280	2100/9280	
AIR COMPRESSOR PORTABLE-AIRCRAFT JET STARTER ONLY	280	MAX	2100/9285	*2100/9285	*16V-92N ONLY
ROAD ROLLER	290	MAX	2100/9280	*2100/9280	*16V-92N ONLY
MARINE MAXIMUM RATING PLEASURE CRAFT	410	MAX	2300/9285	*2100/9285	*16V-92N ONLY
MARINE INTERMITTENT RATING-FISHING	421	MAX	2100/9280	2100/9280	
MARINE CONTINUOUS RATING-FISHING	422	REC	1800/(C)	-	(C) CONT. RATING
		MAX	1800/9275	1800/9275	
MARINE MAXIMUM RATING COMMERCIAL	430	MAX	2300/9285	*2100/9285	*16V-92N ONLY
MARINE INTERMITTENT RATING-COMMERCIAL	431	MAX	2100/9280	2100/9280	
MARINE MAXIMUM RATING GOVERNOR	440	MAX	2300/9285	*2100/9285	*16V-92N ONLY

V92 - 1
(08-01-84)

V92 MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	6 & 8V-92N	12 & 16V-92N	REMARKS
MARINE CONTINUOUS RATING GOVERNMENT	442	REC	1800/(C)	-	(C) CONT. RATING
MARINE CONTINUOUS RATING-COMMERCIAL	452	REC	1800/(C)	-	(C) CONT. RATING
BARGE OR DREDGE PUMP	470	REC	1800/(C)	-	(C) CONT. RATING
SHIP EMERGENCY STANDBY POWER	480	MAX	1800/9285	*1800/9285	*16V-92N ONLY
REEFER	510	REC	1800/(C)	-	(C) CONT. RATING
RAILWAY-PROPULSION	520	MAX	2100/9280	2100/9280	*16V-92N ONLY
ROAD LOCOMOTIVE	530	REC	1800/(C)	-	(C) CONT. RATING
RAILWAY MAINTENANCE	540	MAX	2100/9280	2100/9280	
SWITCHER	550	MAX	*2100/9285	-	*6V-92N ONLY
FARM TRACTOR-2WD	610	MAX	2100/9280	2100/9280	
FARM TRACTOR-2WD	611	MAX	2100/9280	2100/9280	*16V-92N ONLY
FEED OR GRAIN MILL	620	MAX	2100/9280	2100/9280	
SPRAYER	630	MAX	-	*2100/9280	*12V-92N ONLY
COTTON GIN	650	MAX	1900/9280	*1900/9280	*16V-92N ONLY
HARVESTER-COMBINE	660	MAX	2100/9280	+2100/9280	+16V-92N ONLY
DRY BULK-STATIONARY	675	MAX	*2300/9280	-	*6V-92N ONLY
AGRICULTURAL SPREADER	680	MAX	1800/9280	-	
DRILL RIG-PORTABLE	710	MAX	2100/9280	*2100/9280	16V-92N ONLY
DREDGE, LINE, MUD, MUNICIPAL PUMP	720	REC	1800/(C)	1800/(C)	(C) CONT RATING
FRACTURING OIL OR CEMENT PUMP	730	MAX	1800/9275	1800/9275	
DRILL TABLE	740	MAX	-	2100/9280	
DRAW WORKS	750	REC	1800/(C)	1800(C)	(C) CONT RATING
GROUND POWER UNIT	809	MAX	1800/9275	1800/9275	
AIRCRAFT	820	MAX	2100/9280	2100/9280	*6V-92N ONLY
GENERATOR PRIME POWER	820	MAX	*2180/9280	-	*12V-92N ONLY
COMMERCIAL BUILDING	840	MAX	-	*1800/9280	
IRRIGATION PUMP	840	MAX	2100/9280	2100/9280	
LIFT TRUCK	850	MAX	2100/9280	-	
GENERATOR STANDBY POWER	870	MAX	1800/9285	1800/9285	
STANDBY PUMP	890	MAX	2100/9285	2100/9285	
STREET SWEEPER/CLEANER	900	MAX	2100/9285	2100/9285	*6V-92N ONLY
SAW MILL	920	MAX	*2100/9280	-	*16V-92N ONLY
WINCH OR YARDER	930	MAX	2100/9280	*2100/9280	*16V-92N ONLY
MILITARY ENGINES	940	MAX	2100/9280	*2100/9280	*16V-92N ONLY
ACCREDITED EDUCATIONAL INSTITUTIONS	950	MAX	2100/9280	-	
PLANING MILL	960	MAX	2100/9280	*2100/9280	*16V-92N ONLY
LOG SKIDDER	970	MAX	1800/9280	*1800/9280	*16V-92N ONLY
AIRCRAFT TOW TRACTOR	980	MAX	2100/9280	*2100/9280	*16V-92N ONLY

V92 MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	6 & 8V-92T	6V-92TA	8V-92TA	REMARKS
STOCK ENGINE	000	MAX	2100/9285	2100/9890	2100/9A90	
DITCHERS, EXCAVATORS SHOVELS & TRENCHERS	050	MAX	*2100/9285	-	-	*8V-92T ONLY
CRANES	070	MAX	2100/9290	2100/9890	2100/9A90	
BACKHOE HYD. DRIVE	071	MAX	2200/9290	2200/9890	2200/9A90	
		MAX	2300/9285	2300/9885	-	
TRACTOR-CRAWLER	110	MAX	2100/9280	-	-	
BOTTOM DUMP TRUCK	120	MAX	2100/9285	2100/9885	-	
GRADER	130	MAX	2100/9285	2100/9885	-	
SCRAPER	140	MAX	2100/9290	2100/9890	-	
COAL HAULER	150	MAX	2100/9290	2100/9890	2100/9A90	
COMPACTOR-VIBRATORY & NON VIBRATORY	160	MAX	2100/9285	2100/9885	-	
REAR DUMP TRUCK	170	MAX	2100/9290	2100/9890	2100/9A90	
LOADER-FRONT END (WHEEL)	180	MAX	2300/9290	2300/9890	2300/9A90	
LOG STACKER	181	MAX	*2100/9290	-	2100/9A90	*8V-92T ONLY
WOOD HARVESTER	182	MAX	2300/9290	2300/9890	2300/9A90	
AIR COMPRESSOR PORTABLE-NOT MULTIPLE MANIFOLDED	210	MAX	2200/9285	2200/9885	-	
AIRPORT CRASH VEHICLE	216	MAX	*2300/9210	2300/9200	2300/9210	*8V-92T ONLY
CRUSHER OR HAMMER MILL	220	MAX	1800/9285	1800/9885	-	
SNOW BLOWER (INDUSTRIAL)	225	MAX	2100/9285	2100/9885	2300/9200	
		MAX	*2300/9200	-	-	*8V-92T ONLY
PORTABLE GRABAGE/TRASH SHREDDER	232	MAX	-	-	2100/9A90	
OVERHEAD LIFT (SKI LIFT)	245	MAX	*2100/9290	-	-	*8V-92T ONLY
ROAD BASE PREPARATION	250	MAX	2100/9285	2100/9890	2100/9A90	
ROAD RESURFACING	251	MAX	2100/9290	2100/9890	2100/9A90	
DRILL AIR	270	MAX	2100/9285	2100/9885	-	
HYDRAULIC PUMP FOR PILE DRIVER	275	MAX	2100/9290	2100/9890	2100/9A90	
AIR COMPRESSOR PORTABLE-AIRCRAFT JET STARTER ONLY	280	MAX	2100/9200	2100/9200	2100/9200	
WOOD CHIPPER-PORTABLE	285	MAX	2100/9290	2100/9290	2100/9290	
WOOD CHIPPER-STATIONARY	286	MAX	1800/9285	1800/9285	1800/9285	
GAS TURBINE STARTER DIESEL FUEL ONLY	294	MAX	-	-	2100/9215	
		MAX	-	-	2300/9200	
GAS TURBINE STARTER JET FUEL ONLY	295	MAX	2300/9200	-	-	
MARINE MAXIMUM RATING PLEASURE CRAFT	410	MAX	-	2300/9225	*2300/9225	*8V-92TI
MARINE INTERMITTENT RATING-FISHING	421	MAX	-	2100/9890	*2100/9290	*8V-92TI
MARINE MAXIMUM RATING COMMERICAL	430	MAX	-	2300/9215	*2300/9215	*8V-92TI
MARINE INTERMITTENT RATING COMMERICAL	431	MAX	-	2100/9890	*2300/9290	*8V-92TI
		MAX	-	-	2100/9A90	
MARINE MAXIMUM RATING GOVERNMENT	440	MAX	-	2300/9225	*2300/9215	*8V-92TI
MARINE CONTINUOUS RATING COMMERICAL	452	MAX	-	-	1800/9A80	

V92 - 3
(08-01-84)

V92 MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	6 & 8V-92T	6V-92TA	8V-92TA	REMARKS
DREDGE PUMP-SETTLING POND	471	MAX	*1800/9285	1800/9B85	-	*6V-92T ONLY
SHIP EMERGENCY STANDBY POWER	480	MAX	1800/9285	-	-	
SHIP SERVICE-PRIME POWER	481	MAX	1800/9200	1800/9200	1800/9200	
RAILCAR-PROPULSION SWITCHER	520	MAX	2100/9285	2100/9285	-	
	550	MAX	2100/9285	2100/9B85	-	
FARM TRACTOR-2WD	610	MAX	2100/9285	2100/9B85	-	
FARM TRACTOR-2WD	611	MAX	2100/9290	2100/9B90	2100/9A90	
HARVESTER-COMBINE	660	MAX	2100/9285	2100/9B90	-	
		MAX	*2300/9290	2300/9B85	-	*6V-92T ONLY
AGRICULTURAL SPREADER	680	MAX	2100/9290	2100/9B90	2100/9A90	
DRILL RIG-PORTABLE	710	MAX	2100/9290	2100/9B85	2100/9A90	
FRACTURING OIL OR CEMENT PUMP	730	MAX	2100/9200	2100/9215	2100/9215	*8V-92T ONLY
		MAX	*2300/9200	-	2300/9200	
DRAW WORKS	750	MAX	2100/9290	2100/9B90	2100/9A90	
DRAW WORKS-HIGHWAY (NON CERTIFIED)	751	MAX	2100/9290	2100/9B90	2100/9A90	
STANDBY POWER TACTICAL GOVERNMENT	811	MAX	*1800/9215	-	1800/9215	*8V-92T ONLY
GENERATOR PRIME POWER COMMERCIAL BUILDING	820	MAX	1800/9200	1800/9200	1800/9200	
EXCAVATORS & CRANES ELECTRIC	825	MAX	*1800/9290	-	1800/9A90	*8V-92T ONLY
IRRIGATION PUMP	840	MAX	2100/9285	2100/9B85	-	
LIFT TRUCK	850	MAX	2100/9290	2100/9B90	2100/9A90	
GENERATOR STANDBY POWER	870	MAX	*1800/9215	1800/9215	1800/9215	*8V-92T ONLY
FIRE PUMP (DISTRIBUTOR CERTIFIED)	881	MAX	2300/9215	-	-	
STANDBY PUMP	890	MAX	2100/9200	2100/9200	2100/9200	
WINCH OR YARDER	930	MAX	2100/9290	2100/9B90	2100/9A90	
AIRCRAFT TOW TRACTOR	980	MAX	2100/9290	2100/9B90	-	

V92 - 4
(08-01-84)

V92 MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	12V-92T/TA	16V-92T/TA	REMARKS
STOCK ENGINE	000	MAX	2100/9B80	2100/9280	*16V-92TA ONLY
		MAX	-	*2100/9290	
DITCHERS, EXCAVATORS SHOVELS & TRENCHERS	005	MAX	2100/9B85	2100/9285	
CRANES	070	MAX	2100/9B90	2100/9290	
BACKHOE HDY DRIVE	071	MAX	2100/9B90	-	
TRACTOR-CRAWLER	110	MAX	2100/9B90	2100/9280	
BOTTOM DUMP TRUCK	120	MAX	2100/9B85	-	
GRADER	130	MAX	2100/9B85	-	
SCRAPER	140	MAX	2100/9B85	2100/9290	
COAL HAULER	150	MAX	2100/9B90	2100/9290	
COMPACTOR-VIBRATORY & NON VIBRATORY	160	MAX	2100/9B85	-	
REAR DUMP TRUCK	170	MAX	2100/9B90	2100/9290	
LOADER-FRONT END (WHEEL)	180	MAX	2100/9B90	2100/9290	
LOG STACKER	181	MAX	2100/9B90	-	
WOOD HARVESTER	182	MAX	2100/9B85	-	
LOADER-FRONT END (CRAWLER)	183	MAX	2100/9B90	-	
AIR COMPRESSOR PORTABLE-NOT MULTIPLE MANIFOLDED	210	MAX	2100/9B85	*2100/9285	*16V-92TA ONLY
PORTABLE MULTIPLE MANIFOLDED	211	MAX	2100/9B90	*2100/9280	*16V-92TA ONLY
GROUND SUPPORT PORTABLE HEATER UNIT/AIR CONDITIONING	215	MAX	2100/9B85	-	
CRUSHER OR HAMMER MILL	220	MAX	1800/9B85	1800/9285	
SNOW BLOWER (INDUSTRIAL)	225	MAX	2100/9B85	2100/9290	
ASPHALT OR CONCRETE MIXER	230	MAX	1900/9B85	-	
ROAD RESURFACING	251	MAX	-	2100/9290	
DRILL AIR	270	MAX	2100/9B85	-	
HYDRAULIC PUMP-PILE DRIVER	275	MAX	2100/9B90	*2100/9290	*16V-92TA ONLY
AIR COMPRESSOR PORTABLE-AIRCRAFT JET STARTER ONLY	280	MAX	-	2100/9290	
WOOD CHIPPER-PORTABLE	285	MAX	2100/9290	2100/9290	
WOOD CHIPPER-STATIONARY	286	MAX	1800/9285	1800/9285	
GAS TURBINE STARTER DIESEL FUEL ONLY	294	MAX	2100/9215	2300/9200	
		MAX	2300/9200	-	
GAS TURBINE STARTER JET FUEL ONLY	295	MAX	2100/9215	2300/9200	
		MAX	2300/9200	-	
MARINE MAXIMUM RATING	410	MAX	-	2100/9290	
PLEASURE CRAFT		MAX	-	*2100/9200	*16V-92TA ONLY
MARINE INTERMITTENT RATING-FISHING	421	MAX	-	*2100/9290	*16V-92TA ONLY
MARINE INTERMITTENT RATING-COMMERCIAL	431	MAX	-	*2100/9290	*16V-92TA ONLY
SHIP EMERGENCY	480	MAX	-	1800/9215	
SHIPS SERVICE-PRIME POWER	481	MAX	-	1800/9200	
RAILCAR-PROPULSION	520	MAX	2100/9B85	-	

V92 - 5
(08-01-84)

V92 MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	12V-92T/TA	16V92T/TA	REMARKS
ROAD LOCOMOTIVE	530	MAX	1800/9B80	-	
SWITCHER	550	MAX	2100/9B85	-	
FARM TRACTOR-4WD	611	MAX	2100/9B85	-	
SPRAYER	630	MAX	2100/9B85	-	
DRILL RIG-PORTABLE	710	MAX	2100/9B85	2100/9285	
FRACTURING OIL OR CEMENT PUMP	730	MAX	2100/9200	2100/9200	
DRAW WORKS	750	MAX	*2100/9215	*2100/9215	*12 & 16V-92TA ONLY
DRAW WORKS-HIGHWAY (NON-CERTIFIED)	751	MAX	2100/9B90	-	
ELECTRIC DRILLING RIG	805	MAX	1800/9B90	-	
GENERATOR SET-STANDBY	811	MAX	-	1800/9215	
GENERATOR PRIME POWER	820	MAX	1800/9B85	1800/9200	
COMMERCIAL BUILDING EXCAVATORS & CRANES	825	MAX	1800/9B90	1800/9290	
ELECTRIC IRRIGATION PUMP	840	MAX	2100/9B85	-	
LIFT TRUCK	850	MAX	1800/9B90	-	
GENERATOR STANDBY POWER	870	MAX	1800/9215	1800/9215	
FIRE PUMP (DISTRIBUTOR CERTIFIED)	881	MAX	2100/9215	-	
STANDBY PUMP	890	MAX	2100/9200	2100/9200	
ACCREDITED EDUCATIONAL INSTITUTIONS	950	MAX	-	2100/9280	
AIRPORT SNOW PLOW	983	MAX	2100/9200	-	

V92 - 6
(08-01-84)

WPD 0949A

6, 8 & 16V-92T & TI TAB

V92 MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	16V92N	16V92T/TA	REMARKS
MARINE MAXIMUM RATING PLEASURE CRAFT	410	MAX	2100/9285	-	
MARINE INTERMITTENT RATING - FISHING	421	MAX	2100/9280	-	
MARINE CONTINUOUS RATING - FISHING	422	MAX	1800/9275	-	
MARINE MAXIMUM RATING COMMERCIAL	430	MAX	2100/9285	-	
MARINE INTERMITTENT RATING - COMMERCIAL	431	MAX	2100/9280	-	
MARINE MAXIMUM RATING GOVERNMENT	440	MAX	2100/9285	-	
MARINE CONTINUOUS RATING GOVERNMENT	442	MAX	1800/9275	-	
MARINE CONTINUOUS RATING - COMMERCIAL	452	MAX	1800/9275	-	
BARGE OR DREDGE PUMP	470	MAX	1800/9275	-	
SHIP EMERGENCY	480	MAX	1800/9275	-	
REFFER	510	MAX	1800/9275	-	
RAILCAR	520	MAX	2100/9280	-	
ROAD LOCOMOTIVE	530	MAX	1800/9275	2100/9280	
RAILWAY MAINTENANCE	540	MAX	2100/9280	-	
SWITCHER	550	MAX	2100/9280	2100/9285	
TRACTOR - FARM	610	MAX	2100/9280	-	
TRACTOR - FARM (4 WHEEL DRIVE)	611	MAX	2100/9280	2100/9285	
FEED OR GRAIN MILL	620	MAX	1800/9280	-	
SPRAYER	630	MAX	-	2100/9285	
CPTON GIN	650	MAX	1900/9280	-	
HARVESTER-COMBINE	660	MAX	2100/9280	-	
AGRICULTURAL SPREADER	680	MAX	2100/9280	-	
DRILL RIG - PORTABLE	710	MAX	2100/9280	2100/9285	
DREDGE, LINE, MUD,	720	REC	1800/(C)	-	(C) CONT RATING
MUNICIPAL PUMP		MAX	1800/9275	-	
FRACTURING OIL OR CEMENT PUMP	730	MAX	2100/9280	*2100/9200	*12V-92TA 9215 INJ.
DRILL TABLE	740	REC	1800/(C)	-	(C) CONT RATING
		MAX	1800/9275	-	
DRAW WORKS	750	MAX	2100/9280	2100/9285	
DRAW WORKS-HIGHWAY (NON CERTIFIED)	751	MAX	-	2100/9290	
ELECTRIC DRILLING RIG	805	MAX	-	1800/9290	
GENERATOR PRIME POWER	820	MAX	1800/9280	1800/9285	
COMMERCIAL BUILDING					
EXCAVATORS & CRANES	825	MAX	-	1800/9290	
ELECTRIC					
IRRIGATION PUMP	840	MAX	2100/9280	2100/9285	
LIFT TRUCK	850	MAX	-	1800/9290	
GENERATOR STANDBY POWER	870	MAX	1800/9285	1800/9215	

V92 - 7
(03/01/83)

V92 MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	16V92N	16V92T/TA	REMARKS
FIRE PUMP (DISTRIBUTOR CERTIFIED)	881	MAX	-	2100/9215	
STANDBY PUMP	890	MAX	2100/9285	2100/9200	
SAW MILL	920	MAX	2100/9280	-	
WINCH OR YARDER	930	MAX	2100/9280	-	
ACCREDITED EDUCATIONAL INSTITUTIONS	950	MAX	2100/9290	-	
PLANING MILL	960	MAX	1800/9280	-	
LOG SKIDDER	970	MAX	2100/9280	-	
AIRCRAFT TOW TRACTOR	980	MAX	2100/9280	-	

V92 - 8
(03/01/83)

V149 MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	12 & 16V 149	12 & 16V 149T	12 & 16V 149TI	REMARKS
STOCK ENGINE	000	MAX	1900/130	1900/150	1900/160	
DITCHER, EXCAVATORS, SHOVELS & TRENCHERS	050	MAX	1900/120	1900/140	1900/150	
CRANES	070	MAX	1900/130	1900/150	1900/160	
TRACTOR-RUBBER TIRE	090	MAX	1900/130	1900/140	1900/160	
TRACTOR-CRAWLER	110	MAX	1900/120	1900/130	-	
BOTTOM DUMP TRUCK	120	MAX	1900/120	1900/130	1900/150	
SCRAPER	140	MAX	1900/130	1900/140	1900/160	
COAL HAULER	150	MAX	1900/130	1900/150	1900/160	
REAR DUMP TRUCK	170	MAX	1900/130	1900/150	+1900/160	+1900/190 MAX ALT 5000 FT
LOADER-FRONT END (WHEEL)	180	MAX	1900/130	1900/150	1900/160	
AIR COMPRESSOR	200	REC	1800/(C)	-	1800/(C)	(C) CONT RATING
STATIONARY		MAX	1800/120	-	1800/140	
PORTABLE-NOT MULTIPLE MANIFOLDED	210	MAX	1800/120	-	1800/140	
CRUSHER OR HAMMER	220	REC	1800/(C)	-	1800/(C)	(C) CONT RATING
MILL		MAX	1800/120	-	1800/140	
GAS TURBINE STARTER (DIESEL FUEL)	294	MAX	-	*1900/165	-	*12V-149T ONLY
GAS TURBINE STARTER (JET FUEL ONLY)	295	MAX	-	*1900/180	-	*12V-149T ONLY
MARINE MAXIMUM RATING	410	MAX	1900/130	1900/150	1900/160	
PLEASURE CRAFT						
MARINE INTERMITTENT RATING-FISHING	421	MAX	1900/130	1900/140	1900/150	
MARINE CONTINUOUS RATING-FISHING	422	MAX	1800/120	1800/140	-	
MARINE MAXIMUM RATING COMMERCIAL	430	MAX	1900/130	1900/150	1900/160	
MARINE INTERMITTENT RATING-COMMERICAL	431	MAX	1900/130	1900/140	1900/150	
MARINE MAXIMUM RATING GOVERNMENT	440	MAX	1900/130	1900/150	1900/160	
MARINE CONTINUOUS RATING GOVERNMENT	442	MAX	-	1800/140	-	
MARINE CONTINUOUS RATING - COMMERCIAL	452	MAX	1800/120	1800/140	-	
BARGE OR DREDGE PUMP	470	REC	1800/(C)	1800/(C)	-	
		MAX	1800/120	1800/140	-	
SHIP EMERGENCY STANDBY POWER	480	MAX	-	1800/170	1800/160	
SHIP SERVICE - PRIME POWER	481	MAX	1800/120	-	-	
RAILCAR-PROPULSION	520	MAX	1900/120	-	1900/140	
ROAD LOCOMOTIVE	530	MAX	1800/120	1800/140	1800/140	
RAILWAY MAINTENANCE	540	MAX	1900/130	-	1900/150	
SWITCHER	550	MAX	1900/130	*1900/140	1900/150	*12V-149T ONLY
DRY BULK BLOWER-PORTABLE	670	MAX	1900/130	1900/150	1900/160	

12V149 - 1
(08-01-84)

V149 MAXIMUM ENGINE SPEED AND INJECTOR SIZE

APPLICATION	CODE NO.	RATING	12 & 16V 149	12 & 16V 149T	12 & 16V 149TI	REMARKS
LINE, MUD, MUNICIPAL PUMP-DREDGE	720	REC	1800/(C)	-	1800/(C)	(C) CONT RATING
		MAX	1800/120	-	1800/140	
FRACTURING OIL OR CEMENT PUMP	730	MAX	1900/130	1900/150	1900/190	
FRACTURING OIL OR CEMENT PUMP	731	MAX	-	-	*2050/160	*MAX ALT 5000 FT
DRILL TABLE	740	REC	1800/(C)	1800/(C)	1800/(C)	(C) CONT RATING
		MAX	1800/120	1800/140	1800/140	
DRAW WORKS	750	MAX	1800/130	1800/150	1800/160	
GENERATOR PRIME POWER	810	MAX	1800/130	1800/150	1800/160	
GOVERNMENT						
GENERATOR STANDBY	811	MAX	1800/130	1800/170	1800/190	
POWER TACTICAL GOV'T						
GENERATOR PRIME POWER	820	MAX	1800/130	1800/150	1800/160	
COMMERCIAL BUILDING						
EXCAVATORS & CRANES	825	MAX	1800/130	1800/150	1900/160	
ELECTRIC						
IRRIGATION PUMP	840	REC	-	1800/(C)	-	(C) CONT RATING
		MAX	1900/130	1900/140	-	
GENERATOR STANDBY	870	MAX	1800/130	1800/170	1800/190	
COMMERCIAL BUILDING						
FIRE PUMP	881	MAX	2000/130	1900/150	1900/190	
(DISTRIBUTOR CERTIFIED)						
STANDBY PUMP	890	MAX	1900/130	1900/170	1900/160	
ACCREDITED EDUCATIONAL	950	MAX	-	-	1900/160	
INSTITUTIONS						
AIRCRAFT TOW TRACTOR	980	MAX	1900/130	1900/150	1900/160	

12V149 - 2

(08-01-84)

WPD 0950A

12 & 16V-149 NAT. ASP. T & TI TAB

8.2 LITER MAXIMUM ENGINE SPEED AND INJECTOR SIZE
INDUSTRIAL AND CONSTRUCTION

APPLICATION	CODE NO.	RATING	8.2 LITER (NATURAL)	8.2 LITER (TURBO)	REMARKS
STOCK ENGINE	000	MAX	2800/4A53	2800/4C65	
DITCHER, EXCAVATORS, SHOVELS & TRENCHERS	050	MAX	2800/4A40	2800/4A53	
CRANES	070	MAX	2800/4A40	*2800/4A53	*2150/4C65
CRANE HYD. & NON HYD.	078	MAX	2800/4A53	2800/4C65	
GRADER	130	MAX	2800/4A53	2800/4C65	
COMPACTOR-VIBRATORY & NON VIBRATORY	160	MAX	2800/4A53	2800/4C65	
LOADER-BACKHOE	179	MAX	2800/4A53	2800/4C65	
LOADER-FORNT END	180	MAX	2800/4A40	2800/4A53	
AIR COMPRESSOR	210	MAX	2800/4A53	2800/4C65	
GROUND SUPPORT	215	MAX	2800/4A53	2800/4C65	
PORTABLE HEATER/AIR CONDITIONING					
WATER BLASTER	223	MAX	2800/4A40	2500/4C65	
WOOD CHIPPER	231	MAX	2800/4A53	2800/4C65	
PAVER-ASPHALT & CONC.	240	MAX	2800/4A53	2800/4C65	
EARTH BORER	261	MAX	2800/4A53	-	
AIR COMPRESSOR	280	MAX	2800/4A53	2800/4C65	
PORTABLE-AIRCRAFT JET STARTER ONLY					
ROAD ROLLER	290	MAX	2800/4A53	2800/4C65	
MARINE MAXIMUM RATING PLEASURE CRAFT	410	MAX	-	3200/4A70	
RAILWAY MAINTENANCE	540	MAX	2800/4A53	2800/4C65	
FARM TRACTOR-2WD	610	MAX	2800/4A40	2800/4A53	
FEED AND GRAIN MILL	620	MAX	2800/4A40	2800/4A53	
SPRAYER	630	MAX	2800/4A53	2800/4C65	
HARVESTER	660	MAX	2800/4A53	2800/4C65	
SPREADER	680	MAX	2800/4A53	2800/4C65	
DREDGE, LINE, MUD AND MUNICIPAL PUMPS	720	MAX	-	2800/4A53	
IRRIGATION PUMP	840	MAX	2800/4A40	2800/4A53	
LIFT TRUCK	850	MAX	2800/4A53	2800/4C65	
FIRE PUMP-DISTRIBUTOR CERTIFIED	881	MAX	3000/4A53	3000/4A70	
STAND BY PUMP	890	MAX	2800/4A53	2800/4C65	
STREET SWEEP	900	MAX	2800/4A53	2800/4C65	
SAW MILL	920	MAX	2800/4A53	2800/4C65	
WINCH OR YARDER	930	MAX	2800/4A53	2800/4C65	
PLANING MILL	960	MAX	2800/4A40	2800/4A53	
AIRCRAFT TOW TRACTOR	980	MAX	2800/4A53	2800/4C65	
AIR CARGO TRANSPORTER	981	MAX	2800/4A53	2800/4C65	

1985 AUTOMOTIVE CURVES

INDEX

<u>ENGINE</u>	<u>INJECTOR</u>	<u>BHP @ RPM</u>	<u>PEAK TORQUE @ RPM</u>	<u>CURVE NUMBER</u>	<u>DATE</u>	<u>SEE NOTE</u>
6L-71N	71B5	183/2100	510/1200	E4-1061-52-23	01-17-85	
6L-71N	7E50	185/2100	571/1000	E4-1061-52-36	10-12-84	
6L-71N	B55	197/2100	550/1200	E4-1061-52-24	01-17-85	
6L-71N	7E55	200/2100	590/1200	E4-1061-52-37	10-12-84	
6L-71N	7E60	210/2100	577/1200	E4-1061-52-25	01-17-85	
6L-71N	7E60	215/2100	611/1200	E4-1061-52-38	10-12-84	
6L-71N	7E65	230/2100	611/1600	E4-1061-52-39	10-01-84	
<u>JWAC</u>						
6L-71TA	7N65	250/2100	703/1200	E4-1067-32-49	08-11-84	
6L-71TA	7E75	260/1800	792/1400	E4-1067-32-33	01-29-85	
6L-71TA	7C70	265/2100	737/1400	E4-1067-32-48	08-11-84	
6L-71TA	7E75	270/1900	792/1400	E4-1067-32-44	01-29-85	
6L-71TA	7A77	275/1800	845/1200	E4-1067-32-83	05-10-85	
6L-71TA	7E75	275/1950	792/1400	E4-1067-32-53	01-29-85	
6L-71TA	7A77	285/1900	845/1200	E4-1067-32-82	05-10-85	
6L-71TA	7A77	290/1950	845/1200	E4-1067-32-81	05-10-85	
6L-71TA	7E75	290/2100	810/1200	E4-1067-32-32	08-18-84	
6L-71TA@	7E75	300/2300	810/1200	E4-1067-32-91	07-19-85	(A)
6L-71TA	7A77	300/2100	845/1200	E4-1067-32-80	05-10-85	
6L-71TA@	7A77	320/2300	845/1200	E4-1067-32-90	05-10-85	
6L-71TTA	7A77	170/1800	845/1200	E4-1067-32-89	05-10-85	
6L-71TTA	7A77	180/1800	840/1000	E4-1067-32-88	05-10-85	
6L-71TTA	7E75	180/1800	780/1200	E4-1067-32-46	01-18-85	
6L-71TTA	7E75	230/1800	792/1400	E4-1067-32-35	01-18-85	
6L-71TTA	7A77	230/1800	845/1200	E4-1067-32-87	05-10-85	
6L-71TTA	7E75	230/1950	800/1400	E4-1067-32-69	02-25-85	
6L-71TTA	7A77	240/1800	845/1200	E4-1067-32-86	05-10-85	
6L-71TTA	7E75	240/1900	792/1400	E4-1067-32-45	01-18-85	
6L-71TTA	7A77	240/1900	845/1200	E4-1067-32-85	05-10-85	
6L-71TTA	7E75	240/2100	792/1400	E4-1067-32-47	01-29-85	
6L-71TTA	7A77	240/2100	845/1200	E4-1067-32-84	05-10-85	
6L-71TAC	7G65	235/2100	685/1200	E4-1067-32-22	08-14-85	(A)
6L-71TAC	7G70	250/2100	729/1200	E4-1067-32-21	08-14-85	(A)
6L-71TAC	7G70	265/2100	792/1200	E4-1067-32-65	11-13-84	
6L-71TAC	7G75	270/2100	788/1200	E4-1067-32-20	08-14-85	(A)
6L-71TAC	7G75	285/2100	847/1200	E4-1067-32-56	10-26-84	
6L-71TTAC	7G75	230/1800	847/1100	E4-1067-32-62	11-13-84	
6L-71TTAC	7G75	230/1950	847/1200	E4-1067-32-61	11-13-84	
6L-71TTAC	7G75	240/2100	847/1200	E4-1067-32-60	11-13-84	

E4M-0000-00-29

10-01-85

Sheet 1 of 5

1985 AUTOMOTIVE CURVES

INDEX

<u>ENGINE</u>	<u>INJECTOR</u>	<u>BHP @ RPM</u>	<u>PEAK TORQUE @ RPM</u>	<u>CURVE NUMBER</u>	<u>DATE</u>	<u>SEE NOTE</u>
<u>ALCC</u>						
6L-71TA	7N65	255/2100	703/1200	E4-1067-32-43	08-10-84	
6L-71TA	7E75	265/1800	800/1400	E4-1067-32-30	01-29-85	
6L-71TA	7C70	270/2100	743/1400	E4-1067-32-42	08-10-84	
6L-71TA	7E75	275/1900	800/1400	E4-1067-32-36	01-29-85	
6L-71TA	7A77	275/1800	845/1200	E4-1067-32-73	04-08-85	
6L-71TA	7E75	279/1950	800/1400	E4-1067-32-54	01-29-85	
6L-71TA	7A77	285/1900	845/1200	E4-1067-32-72	04-08-85	
6L-71TA	7A77	290/1950	845/1200	E4-1067-32-71	04-08-85	
6L-71TA	7E75	300/2100	833/1400	E4-1067-32-31	01-17-85	
6L-71TA	7A77	300/2100	845/1200	E4-1067-32-70	04-08-85	
6L-71TTA	7E75	180/1800	778/1200	E4-1067-32-39	08-06-84	
6L-71TTA	7A77	180/1800	840/1000	E4-1067-32-78	04-08-85	
6L-71TTA	7E75	230/1800	800/1400	E4-1067-32-34	08-06-84	
6L-71TTA	7E75	230/1950	800/1400	E4-1067-32-69	02-25-85	
6L-71TTA	7A77	230/1800	845/1200	E4-1067-32-77	04-08-85	
6L-71TTA	7E75	240/1900	800/1400	E4-1067-32-38	08-06-84	
6L-71TTA	7E75	240/2100	800/1400	E4-1067-32-37	01-29-85	
6L-71TTA	7A77	240/1800	845/1200	E4-1067-32-76	04-08-85	
6L-71TTA	7A77	240/1900	845/1200	E4-1067-32-75	04-08-85	
6L-71TTA	7A77	240/2100	845/1200	E4-1067-32-74	04-08-85	
6L-71TAC	7G70	270/2100	805/1200	E4-1067-32-66	11-13-84	
6L-71TAC	7G75	290/2100	862/1200	E4-1067-32-55	10-26-84	
6L-71TTAC	7G75	230/1800	862/1200	E4-1067-32-59	11-13-84	
6L-71TTAC	7G75	230/1950	862/1200	E4-1067-32-58	11-13-84	
6L-71TTAC	7G75	240/2100	862/1200	E4-1067-32-57	11-13-84	
<u>JWAC</u>						
6V-71N(2)*	7G60	180/2100	572/1000	E4-7067-51-02	01-02-85	
6V-71N(2)*	7G60	190/2100	588/1000	E4-7067-51-01	01-02-85	
8V-71N	7E60	280/2100	782/1200	E4-7081-52-62	10-24-84	
8V-71N	7E65	304/2100	818/1400	E4-7081-52-64	10-01-84	
6V-71TA*	71N5	185/2100	589/1000	E4-7067-32-5	09-11-84	
6V-71TA*	N55	200/2100	625/1000	E4-7067-32-4	09-11-84	
6V-71TA*	N60	220/2100	672/1000	E4-7067-32-3	09-11-84	
6V-71TA**	71N5	175/2100	545/1000	E4-7067-32-8	09-11-84	
6V-71TA**	N55	185/2100	582/1000	E4-7067-32-7	09-11-84	
6V-71TA**	N60	205/2100	632/1000	E4-7067-32-6	09-11-84	

E4M-0000-00-29

10-01-85

Sheet 2 of 5

1985 AUTOMOTIVE CURVES

INDEX

<u>ENGINE</u>	<u>INJECTOR</u>	<u>BHP @ RPM</u>	<u>PEAK TORQUE @ RPM</u>	<u>CURVE NUMBER</u>	<u>DATE</u>	<u>SEE NOTE</u>
<u>JWAC</u>						
6V-92TA	9E85	290/1600	1015/1000	E4-8067-32-42	07-18-84	
6V-92TA	9G85	300/1800	975/1200	E4-8067-32-38	07-02-84	
6V-92TA	9G90	350/2100	1020/1200	E4-8067-32-37	05-16-84	
6V-92TTA	9G85	270/1800	975/1200	E4-8067-32-51	08-20-84	
6V-92TTA	9G85	270/1800	975/1200	E4-8067-32-66	01-25-85	
6V-92TTA	9G90	300/2100	1020/1200	E4-8067-32-39	05-17-84	
6V-92TAC	9F90	300/1800	1000/1200	E4-8067-32-46	08-01-84	
6V-92TAC	9F85	320/2100	1200/ 950	E4-8067-32-69	02-25-85	
6V-92TAC	9F90	340/2100	1000/1200	E4-8067-32-45	08-01-84	
6V-92TTAC	9F90	270/2100	1000/1200	E4-8067-32-67	01-25-85	
6V-92TTAC	9F90	300/2100	1000/1200	E4-8067-32-47	08-01-84	
6V-92TA*	9F70	245/2100	775/1200	E4-8067-32-55	09-21-84	
6V-92TA*	9G75	260/2100	823/1200	E4-8067-32-56	09-21-84	
6V-92TA*	9F80	280/2100	849/1200	E4-8067-32-57	09-24-84	
6V-92TA*	9H85	315/2100	976/1200	E4-8067-32-58	09-24-84	
6V-92TA**	9F70	253/2100	775/1200	E4-8067-32-41	08-22-84	
6V-92TA**	9G75	277/2100	840/1200	E4-8067-32-40	08-22-84	
6V-92TA**	9F80	294/2100	875/1200	E4-8067-32-48	08-17-84	
6V-92TA**	9H85	325/2100	1007/1200	E4-8067-32-49	08-17-84	
6V-92TA**	9F80	300/2100	893/1200	E4-8067-32-44	10-23-84	
6V-92TA**	9H85	330/2100	1007/1200	E4-8067-32-50	10-23-84	
6V-92TAC*	9E65	230/2100	793/1000	E4-8067-32-61	10-12-84	
6V-92TAC*	9E70	245/2100	835/1000	E4-8067-32-62	10-12-84	
6V-92TAC*	9E80	255/2100	846/1000	E4-8067-32-63	10-12-84	
6V-92TAC**	9E65	240/2100	825/1000	E4-8067-32-52	10-23-84	
6V-92TAC**	9E70	260/2100	872/1000	E4-8067-32-53	10-23-84	
6V-92TAC**	9E80	270/2100	882/1000	E4-8067-32-54	08-27-84	
6V-92TAC**	9F90	320/2100	989/1200	E4-8067-32-68	02-11-85	(A)
<u>A/A</u>						
6V-92T	9K85	290/1600	1050/1000	E4-8067-32-70	04-04-85	
6V-92T	9J85	300/1800	975/1200	E4-8067-32-64	10-26-84	

E4M-0000-00-29

10-01-85

Sheet 3 of 5

1985 AUTOMOTIVE CURVES

INDEX

<u>ENGINE</u>	<u>INJECTOR</u>	<u>BHP @ RPM</u>	<u>PEAK TORQUE @ RPM</u>	<u>CURVE NUMBER</u>	<u>DATE</u>	<u>SEE NOTE</u>
<u>A/A DDEC</u>						
6V-92T	5234770	300/1800	1050/1200	E4-8067-32-71	07-17-85	(A)
<u>ALCC</u>						
6V-92TA	9H85	300/1800	975/1200	E4-8067-32-65	11-29-84	
<u>JWAC</u>						
8V-92TA	9E80	350/1600	1250/1000	E4-8087-32-48	02-13-85	
8V-92TA	7G75	350/1800	1175/1200	E4-8087-32-49	06-04-84	
8V-92TA	9G85	400/1800	1250/1300	E4-8087-32-47	07-02-84	
8V-92TA	9G85	450/2100	1250/1300	E4-8087-32-46	07-02-84	
8V-92TA	9G90	475/2100	1330/1300	E4-8087-32-44	05-17-84	
8V-92TTA	9G90	400/2100	1330/1300	E4-8087-32-45	12-13-84	
8V-92TAC	7G75	350/1800	1175/1200	E4-8087-32-53	08-06-84	
8V-92TAC	9F90	400/1800	1250/1300	E4-8087-32-52	08-03-84	
8V-92TAC	9F90	450/2100	1250/1300	E4-8087-32-50	08-17-84	
8V-92TTAC	9F90	400/2100	1250/1300	E4-8087-32-51	08-03-84	
8V-92TA**	9E65	340/2100	1134/1000	E4-8087-32-54	08-06-84	
8V-92TA**	9E65	340/2100	1134/1000	E4-8087-32-55	08-06-84	
<u>ALCC</u>						
8V-92TA	7G75	350/1800	1175/1200	E4-8087-32-59	11-29-84	
8V-92TA	9G85	400/1800	1250/1200	E4-8087-32-60	11-29-84	
V8-6.2	DB2-4425	138/3600	245/2000	E4-3087-12-11	01-08-85	
V8-6.2	DB2-4427	138/3600	245/2000	E4-3087-11-01	01-17-85	
V8-6.2	DB2-4411	153/3600	257/2000	E4-3087-12-10	11-13-84	
V8-6.2	DB2-4410	153/3600	250/2000	E4-3087-12-3	11-13-84	
V8-8.2	4A40	130/2800	318/1000	E4-4087-11-9	10-08-84	
V8-8.2	4B45	145/2800	330/1200	E4-4087-11-10	10-08-84	
V8-8.2	4B53	165/2800	354/1200	E4-4087-11-11	10-08-84	
V8-8.2C	4B45	145/2800	330/1200	E4-4087-11-15	10-08-84	
V8-8.2C	4B55	165/2800	370/1200	E4-4087-11-16	10-08-84	

E4M-0000-00-29

10-01-85

Sheet 4 of 5

1985 AUTOMOTIVE CURVES

INDEX

<u>ENGINE</u>	<u>INJECTOR</u>	<u>BHP @ RPM</u>	<u>PEAK TORQUE @ RPM</u>	<u>CURVE NUMBER</u>	<u>DATE</u>	<u>SEE NOTE</u>
V8-8.2T	4J60	165/2600	418/1400	E4-4087-11-26	03-25-85	
V8-8.2T	4A53	165/2800	383/1400	E4-4087-31-21	10-08-84	
V8-8.2T	4C65	205/2800	442/1700	E4-4087-31-16	10-08-84	
V8-8.2T	4B75	230/2800	510/1700	E4-4087-31-23	04-08-85	
V8-8.2TC	4K60	165/2600	405/1400	E4-4087-31-27	03-25-85	
V8-8.2TC	4E67	200/2800	440/1700	E4-4087-31-18	10-08-84	
V8-8.2T*	4H60	180/2800	412/1500	E4-4087-31-24	10-03-84	
V8-8.2T**	4H60	190/2800	434/1500	E4-4087-31-25	10-01-84	

NOTES: (A) - CURVES ADDED
(R) - REVISED
JWAC - JACKET WATER AFTERCOOLED
ALCC - ADVANCED LIQUID CHARGE COOLING
A/A - AIR TO AIR CHARGE COOLING
DDEC - DETROIT DIESEL ELECTRIC CONTROL
Ⓢ - FIRE TRUCK ONLY
* - COACH ENGINES - DIESEL FUEL #1
** - COACH ENGINES - DIESEL FUEL #2



ENGINE PERFORMANCE CURVE

RATING: RATED BRAKE POWER

MODEL: 6-71N

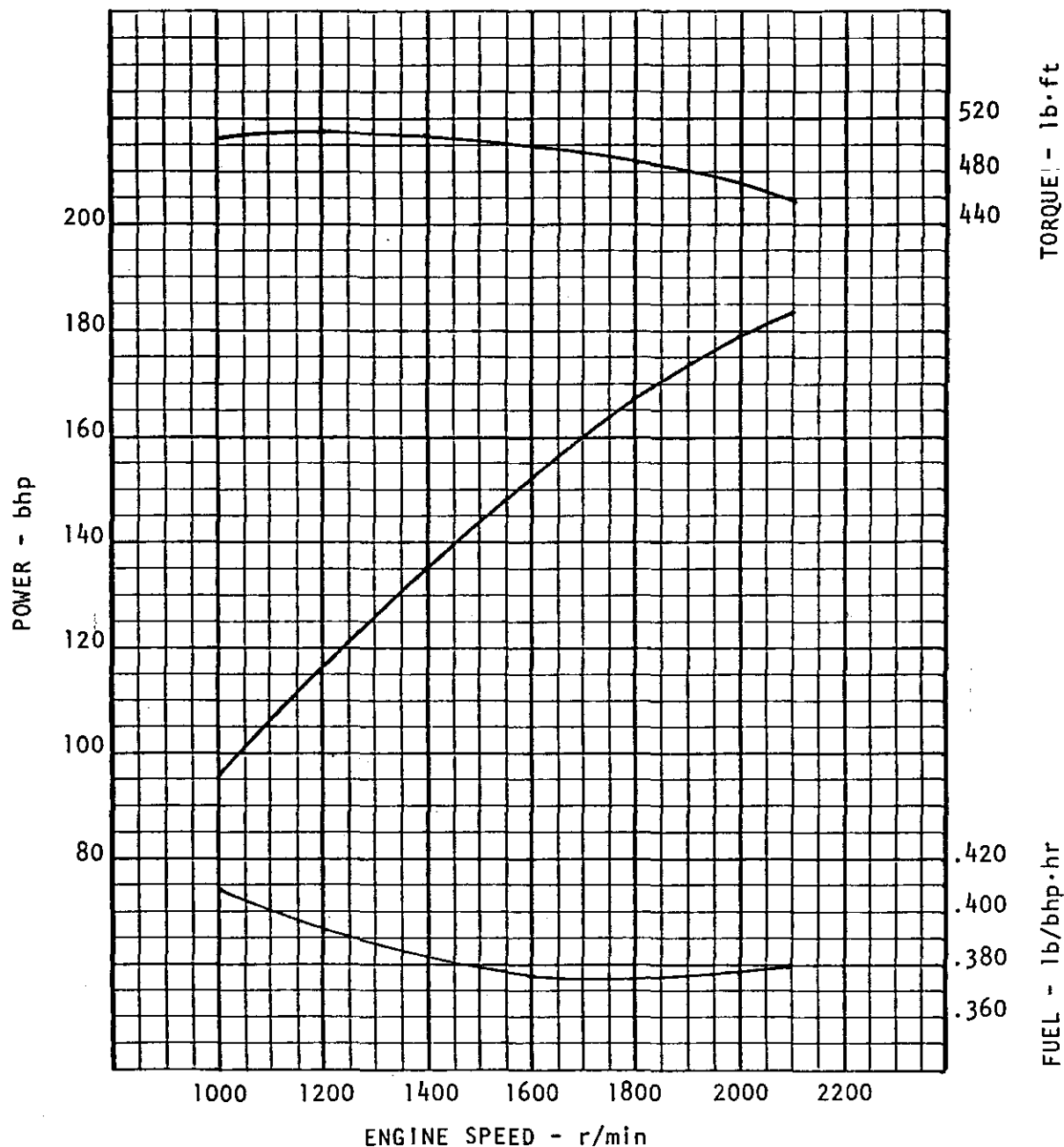
APPLICATION: AUTOMOTIVE

183 bhp @ 2100 r/min

CERTIFICATION: CALIFORNIA 1977-1979

510 lb·ft @ 1200 r/min

FEDERAL 1981-1985



AIR INTAKE RESTRICTION - in. H₂O (kPa) . . . 10 (2.5)
EXHAUST BACK PRESSURE - in. H₂O (kPa) . . . 15 (3.7)

• POWER OUTPUT GUARANTEED WITHIN 5% AT SAE J1349 CONDITIONS:
77°F (25°C) AIR INLET TEMPERATURE; 29.31 in. Hg (99kPa) DRY BAROMETER;
100°F (39°C) FUEL INLET TEMPERATURE (.853 SPECIFIC GRAVITY AT 60°F).
• CONVERSION FACTORS: POWER: kW = bhp × 0.746
FUEL: kg/kW·hr = lb/bhp·hr × 0.608
TORQUE: N·m = lb·ft × 1.356
• VALUES DERIVED ARE FROM CURRENTLY AVAILABLE DATA AND SUBJECT TO
CHANGE WITHOUT NOTICE.

CERTIFIED BY:

A. S. Perdue

STAFF ENGINEER

CURVE NO.

E4-1061-52-23

DATE: 10-30-74

REV./DATE: 8/1-17-85

SHT. 1 OF 2

ENGINE SPECIFICATION DATA

General Data

Model.....	1067-8040
Number of Cylinders.....	6
Bore and Stroke-in(mm).....	4.25x5.00(108x127)
Displacement-in ³ (L).....	426(6.9)
Compression Ratio.....	18.7:1
Piston Speed-ft/min(m/min).....	1750(533)
Valves Per Cylinder	
Intake.....	NOT APPLICABLE
Exhaust.....	4
Combustion System.....	DIRECT INJECTION
Engine Type.....	INLINE
Aspiration.....	NATURAL

Configuration

Turbocharger.....	NOT APPLICABLE
Charge Air Cooling System.....	NONE
Blower Type.....	STANDARD
Blower Drive Ratio.....	2.00:1
Low Idle Speed-r/min.....	550
High Idle Speed-r/min.....	2250
Thrust Bearing Load Limit	
Continuous-lbf(N).....	600(2670)
Intermittent-lbf(N).....	1800(8000)
Engine Crankcase Vent System.....	OPEN
Maximum Pressure-In H ₂ O(kPa).....	3.0(0.75)

Physical Data

Size	
Length-in(mm).....	56.0(1422)
Width-in(mm).....	33.0(838)
Height-in(mm).....	44.0(1118)
Weight, dry-lb(kg).....	2150(975)
Center of Gravity Distance	
From R.F.O.B. (x axis)-in(mm).....	19.08(485)
Above Crankshaft (y axis)-in(mm).....	7.28(185)
Right of Crankshaft (z axis)-in(mm).....	0.58(14.7)
Installation Drawing.....	5131340
Maximum Allowable Static Bending Moment at Rear Face of FW Hsg-lbf ft(N m)....	600(814)

Fuel System

Fuel Injector/Timing.....	7185/1.500
Fuel Injection Pump/Timing.....	NOT APPLICABLE
Fuel Consumption-lb/hr(kg/hr).....	69.6(31.6)
Fuel Consumption-gal/hr(L/hr).....	10.0(37.7)
Fuel Spill Rate-lb/hr(kg/hr).....	503.3(228.3)
Fuel Spill Rate-gal/hr(L/hr).....	72(272.5)
Total Fuel Flow-lb/hr(kg/hr).....	572.9(259.9)
Total Fuel Flow-gal/hr(L/hr).....	82.0(310.3)
Maximum Allowable Fuel Pump Suction	
Clean System-In Hg(kPa).....	6(20)
Dirty System-In Hg(kPa).....	12(41)
Fuel Filter Micron Size	
Primary - Micron.....	30
Secondary - Micron.....	10

Lubrication System

Oil Pressure	
Rated Speed-lbf/in ² (kPa).....	50(345)
Low Idle-lbf/in ² (kPa).....	5(34)
In Pan Oil Temperature-°F(°C).....	200-235(93-113)
Oil Flow-gal/min(L/min).....	32(121)
Oil Pan Capacity	
High-qt(L).....	22(20.8)
Low-qt(L).....	18(17.0)
Total Engine Oil Capacity with filters-qt(L).....	24(22.7)
Bypass Oil Filter Orifice-in(mm).....	0.101(2.57)
Engine Angularity Limits	
Front up - degrees.....	24
Front down - degrees.....	14
Side tilt - degrees.....	NOT AVAILABLE

Emission Data

CO-gm/hr.....	340
HC-gm/hr.....	43
NO _x -gm/hr.....	1070
SO ₂ -gm/hr.....	320
Smoke	
Rated Speed - Bosch Number.....	NOT AVAILABLE
Peak Torque Speed - Bosch Number.....	NOT AVAILABLE
Noise - dB(A) @ 1m.....	103
Certification Approval.....	FEDERAL 1985

Cooling System

Engine Heat Rejection-Btu/min(kW).....	5300(93.2)
Engine Radiated Heat-Btu/min(kW).....	1020(18.0)
Coolant Flow-gal/min(L/min).....	79(299)
Thermostat	
Start to Open-°F(°C).....	170(77)
Fully Open-°F(°C).....	187(86)
Maximum Water Pump Inlet	
Restriction-In Hg(kPa).....	0
Engine Coolant Capacity-qt(L).....	21(20.8)
Minimum Pressure Cap-lbf/in ² (kPa).....	9.0(62.1)
Maximum Coolant Pressure (Exclusive of Pressure Cap)-lbf/in ² (kPa).....	NOT AVAILABLE
Maximum Top Tank Temperature-°F(°C)....	210(99)
Minimum Top Tank Temperature-°F(°C)....	160(71)
Minimum Coolant Fill Rate-gal/min(L/min).....	3.0(11.4)
Cooling Index	
Minimum Air to Boil-°F(°C).....	112(44.4)
Maximum Air to Water Diff.-°F(°C).....	100(55.6)
Ram Air Flow - Mile/hr(km/hr).....	15(24)
Deaeration-Air Injection	
Capacity-ft ³ /min(m ³ /min).....	0.6(0.017)
Drawdown - Minimum Requirement (or 10% of Cooling System Capacity-Whichever is Larger)-qt(L).....	4.0(3.8)

Air System

Maximum Allowable Temperature Rise (Ambient Air to Engine Inlet)-°F(°C)...	30(16.7)
Air Intake Restriction Maximum Limit	
Dirty Air Cleaner-In H ₂ O(kPa).....	25.0(6.2)
Clean Air Cleaner-In H ₂ O(kPa).....	17.0(4.2)
Engine Air Flow - ft ³ /min(m ³ /min).....	660(18.7)
Engine Air Box/Manifold Pressure-In Hg(kPa).....	6.0(20.3)
Recommended Intake Pipe Dia.-in(mm)....	5.5(140)

Exhaust System

Exhaust Flow-ft ³ /min(m ³ /min).....	1470(42)
Exhaust Temperature-°F(°C).....	740(393)
Maximum Allowable Back Pressure-In Hg(kPa).....	4.0(13.5)
Recommended Exhaust Pipe Dia.	
Single-In(mm).....	4.0(102)
Dual-In(mm).....	NOT APPLICABLE
Exhaust Brake Max. Allowable Back Pressure-In Hg(kPa).....	NOT APPLICABLE

Electrical System

Recommended Battery Capacity(CCA @ 0°F)	
12 Volt System	
Above 32°F(0°C)-A.....	950
Below 32°F(0°C)-A.....	1250
24 Volt System	
Above 32°F(0°C)-A.....	475
Below 32°F(0°C)-A.....	625
Maximum Allowable Resistance of Starting Circuit	
12 volt system - ohm.....	0.0012
24 volt system - ohm.....	0.002

Performance Data

Power Output-bhp(kW).....	183(137)
Full Load Speed-r/min.....	2100
Peak Torque-lb ft(N m).....	510(691)
Peak Torque Speed-r/min.....	1200
BMEP-lbf/in ² (kPa).....	81.3(561)
Friction Power	
Rated Speed-bhp(kW).....	53(40)
Peak Torque Speed-bhp(kW).....	23(17)
Altitude Capability-ft(m).....	14000(4270)
Torque Available at 800 r/min-lb ft (N m).....	520(705)

Engine

Speed r/min	Power bhp(kW)	Torque lb ft(N m)	BSEC lb/bhp hr (g/kW hr)
2100	183(137)	458(621)	.380(231)
2000	179(134)	471(639)	.377(229)
1800	167(125)	488(662)	.374(227)
1600	152(113)	499(677)	.376(229)
1400	136(101)	508(689)	.383(233)
1200	117 (87)	510(691)	.393(239)
1000	96 (72)	504(683)	.408(248)

All values at rated speed and power and with standard engine hardware unless otherwise noted.

Curve No. E4-1061-52-23
Date: 10-30-74
Rev./Date: 8/1-17-85
Sht. 2 of 2



ENGINE PERFORMANCE CURVE

RATING: RATED BRAKE POWER.

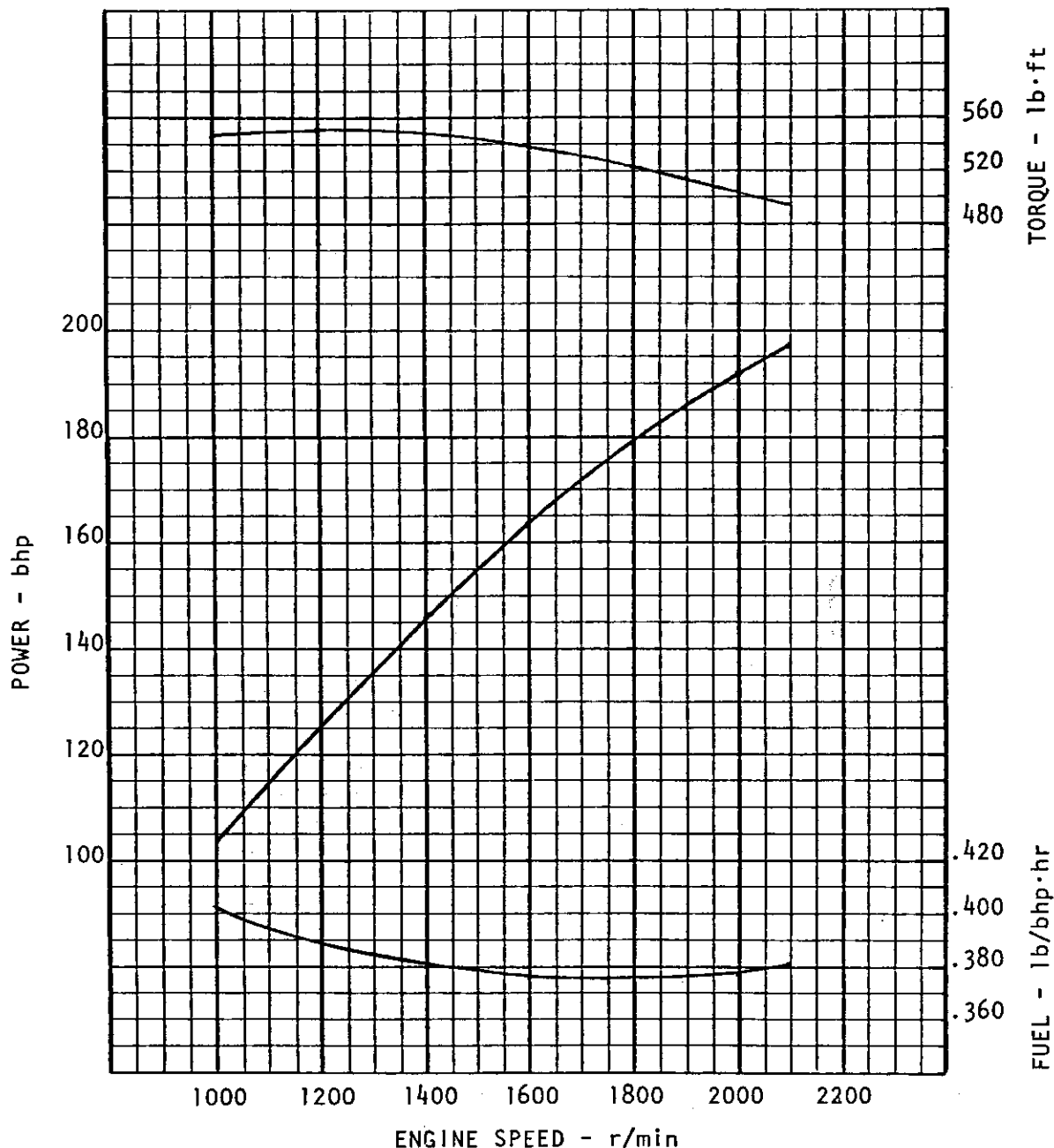
APPLICATION: AUTOMOTIVE

CERTIFICATION: CALIFORNIA 1977-1979
FEDERAL 1981-1985

MODEL: 6-71N

197 bhp @ 2100 r/min

550 lb·ft @ 1200 r/min

AIR INTAKE RESTRICTION - in. H₂O (kPa) . . . 10 (2.5)EXHAUST BACK PRESSURE - in. H₂O (kPa) . . . 15 (3.7)

- POWER OUTPUT GUARANTEED WITHIN 5% AT SAE J1349 CONDITIONS:
77°F (25°C) AIR INLET TEMPERATURE; 29.31 in. Hg (99kPa) DRY BAROMETER;
100°F (39°C) FUEL INLET TEMPERATURE (.853 SPECIFIC GRAVITY AT 60°F).

- CONVERSION FACTORS: POWER: kW = bhp × 0.746
FUEL: kg/kW·hr = lb/bhp·hr × 0.608
TORQUE: N·m = lb·ft × 1.356

- VALUES DERIVED ARE FROM CURRENTLY AVAILABLE DATA AND SUBJECT TO CHANGE WITHOUT NOTICE.

CERTIFIED BY:

PK Perdue

STAFF ENGINEER

CURVE NO.

E4-1061-52-24

DATE: 10-30-74

REV./DATE: 8/1-17-85

SHT. 1 OF 2

ENGINE SPECIFICATION DATA

General Data

Model.....	1067-8040
Number of Cylinders.....	6
Bore and Stroke-In(mm).....	4.25x5.00(108x127)
Displacement-In ³ (L).....	426(6.9)
Compression Ratio.....	18.7:1
Piston Speed-ft/min(m/min).....	1750(533)
Valves Per Cylinder	
Intake.....	NOT APPLICABLE
Exhaust.....	4
Combustion System.....	DIRECT INJECTION
Engine Type.....	INLINE
Aspiration.....	NATURAL

Configuration

Turbocharger.....	NOT APPLICABLE
Charge Air Cooling System.....	NONE
Blower Type.....	STANDARD
Blower Drive Ratio.....	2.00:1
Low Idle Speed-r/min.....	550
High Idle Speed-r/min.....	2250
Thrust Bearing Load Limit	
Continuous-lbf(N).....	600(2670)
Intermittent-lbf(N).....	1800(8000)
Engine Crankcase Vent System.....	OPEN
Maximum Pressure-In H ₂ O(kPa).....	3.0(0.75)

Physical Data

Size	
Length-In(mm).....	56.0(1422)
Width-In(mm).....	33.0(838)
Height-In(mm).....	44.0(1118)
Weight, dry-lb(kg).....	2150(975)
Center of Gravity Distance	
From R.F.O.B. (x axis)-In(mm).....	19.08(485)
Above Crankshaft (y axis)-In(mm).....	7.28(185)
Right of Crankshaft (z axis)-In(mm).....	0.58(14.7)
Installation Drawing.....	5131340
Maximum Allowable Static Bending Moment at Rear Face of FW Hsg-lbf ft(N m).....	600(814)

Fuel System

Fuel Injector/Timing.....	B55/1.500
Fuel Injection Pump/Timing.....	NOT APPLICABLE
Fuel Consumption-lb/hr(kg/hr).....	75.0(34.0)
Fuel Consumption-gal/hr(L/hr).....	10.7(40.6)
Fuel Spill Rate-lb/hr(kg/hr).....	503.3(228.3)
Fuel Spill Rate-gal/hr(L/hr).....	72(272.5)
Total Fuel Flow-lb/hr(kg/hr).....	578.3(262.3)
Total Fuel Flow-gal/hr(L/hr).....	82.7(313.2)
Maximum Allowable Fuel Pump Suction	
Clean System-In Hg(kPa).....	6(20)
Dirty System-In Hg(kPa).....	12(41)
Fuel Filter Micron Size	
Primary - Micron.....	30
Secondary - Micron.....	10

Lubrication System

Oil Pressure	
Rated Speed-lbf/in ² (kPa).....	50(345)
Low Idle-lbf/in ² (kPa).....	5(34)
In Pan Oil Temperature-°F(°C).....	200-235(93-113)
Oil Flow-gal/min(L/min).....	32(121)
Oil Pan Capacity	
High-qt(L).....	22(20.8)
Low-qt(L).....	18(17.0)
Total Engine Oil Capacity with filters-qt(L).....	24(22.7)
Bypass Oil Filter Orifice-In(mm).....	0.101(2.57)
Engine Angularity Limits	
Front up - degrees.....	24
Front down - degrees.....	14
Side tilt - degrees.....	NOT AVAILABLE

Emission Data

CO-gm/hr.....	760
HC-gm/hr.....	46
NO _x -gm/hr.....	1220
SO ₂ -gm/hr.....	340
Smoke	
Rated Speed - Bosch Number.....	NOT AVAILABLE
Peak Torque Speed - Bosch Number.....	NOT AVAILABLE
Noise - dB(A) @ 1m.....	103
Certification Approval.....	FEDERAL 1985

Cooling System

Engine Heat Rejection-Btu/min(kW).....	5700(100.2)
Engine Radiated Heat-Btu/min(kW).....	1060(18.6)
Coolant Flow-gal/min(L/min).....	79(299)
Thermostat	
Start to Open-°F(°C).....	170(77)
Fully Open-°F(°C).....	187(86)
Maximum Water Pump Inlet	
Restriction-In Hg(kPa).....	0
Engine Coolant Capacity-qt(L).....	21(20.8)
Minimum Pressure Cap-lbf/in ² (kPa).....	9.0(62.1)
Maximum Coolant Pressure (Exclusive of Pressure Cap)-lbf/in ² (kPa).....	NOT AVAILABLE
Maximum Top Tank Temperature-°F(°C).....	210(99)
Minimum Top Tank Temperature-°F(°C).....	160(71)
Minimum Coolant Fill Rate-gal/min(L/min).....	3.0(11.4)
Cooling Index	
Minimum Air to Boil-°F(°C).....	112(44.4)
Maximum Air to Water Diff.-°F(°C).....	100(55.6)
Ram Air Flow - Mile/hr(km/hr).....	15(24)
Deaeration-Air Injection	
Capacity-ft ³ /min(m ³ /min).....	0.6(0.017)
Drawdown - Minimum Requirement (or 10% of Cooling System Capacity-Whichever is Larger)-qt(L).....	4.0(3.8)

Air System

Maximum Allowable Temperature Rise (Ambient Air to Engine Inlet)-°F(°C).....	30(16.7)
Air Intake Restriction Maximum Limit	
Dirty Air Cleaner-In H ₂ O(kPa).....	25.0(6.2)
Clean Air Cleaner-Ig H ₂ O(kPa).....	17.0(4.2)
Engine Air Flow - ft ³ /min(m ³ /min).....	660(18.7)
Engine Air Box/Manifold Pressure-In Hg(kPa).....	6.0(20.3)
Recommended Intake Pipe Dia.-In(mm).....	5.5(140)

Exhaust System

Exhaust Flow-ft ³ /min(m ³ /min).....	1520(43)
Exhaust Temperature-°F(°C).....	780(416)
Maximum Allowable Back Pressure-In Hg(kPa).....	4.0(13.5)
Recommended Exhaust Pipe Dia.	
Single-In(mm).....	4.0(102)
Dual-In(mm).....	NOT APPLICABLE
Exhaust Brake Max. Allowable Back Pressure-In Hg(kPa).....	NOT APPLICABLE

Electrical System

Recommended Battery Capacity(CCA @ 0°F)	
12 Volt System	
Above 32°F(0°C)-A.....	950
Below 32°F(0°C)-A.....	1250
24 Volt System	
Above 32°F(0°C)-A.....	475
Below 32°F(0°C)-A.....	625
Maximum Allowable Resistance of Starting Circuit	
12 volt system - ohm.....	0.0012
24 volt system - ohm.....	0.002

Performance Data

Power Output-bhp(kW).....	197(147)
Full Load Speed-r/min.....	2100
Peak Torque-lb ft(N m).....	550(746)
Peak Torque Speed-r/min.....	1200
BMEP-lbf/in ² (kPa).....	87.4(607)
Friction Power	
Rated Speed-bhp(kW).....	53(40)
Peak Torque Speed-bhp(kW).....	23(17)
Altitude Capability-ft(m).....	14000(4270)
Torque Available at 800 r/min-lb ft (N m).....	520(705)

Engine

Speed r/min	Power bhp(kW)	Torque lb ft(N m)	BSEC lb/bhp hr (g/kW hr)
2100	197(147)	493(668)	.381(232)
2000	192(143)	504(683)	.378(230)
1800	179(134)	523(709)	.376(229)
1600	164(122)	538(729)	.376(229)
1400	146(109)	548(743)	.381(232)
1200	126(94)	550(746)	.389(237)
1000	104(78)	546(740)	.402(245)

All values at rated speed and power and with standard engine hardware unless otherwise noted.

Curve No. E4-1061-52-24
Date: 10-30-74
Rev./Date: 8/1-17-85
Sht. 2 of 2



ENGINE PERFORMANCE CURVE

RATING: GROSS POWER - BASIC ENGINE

APPLICATION: AUTOMOTIVE

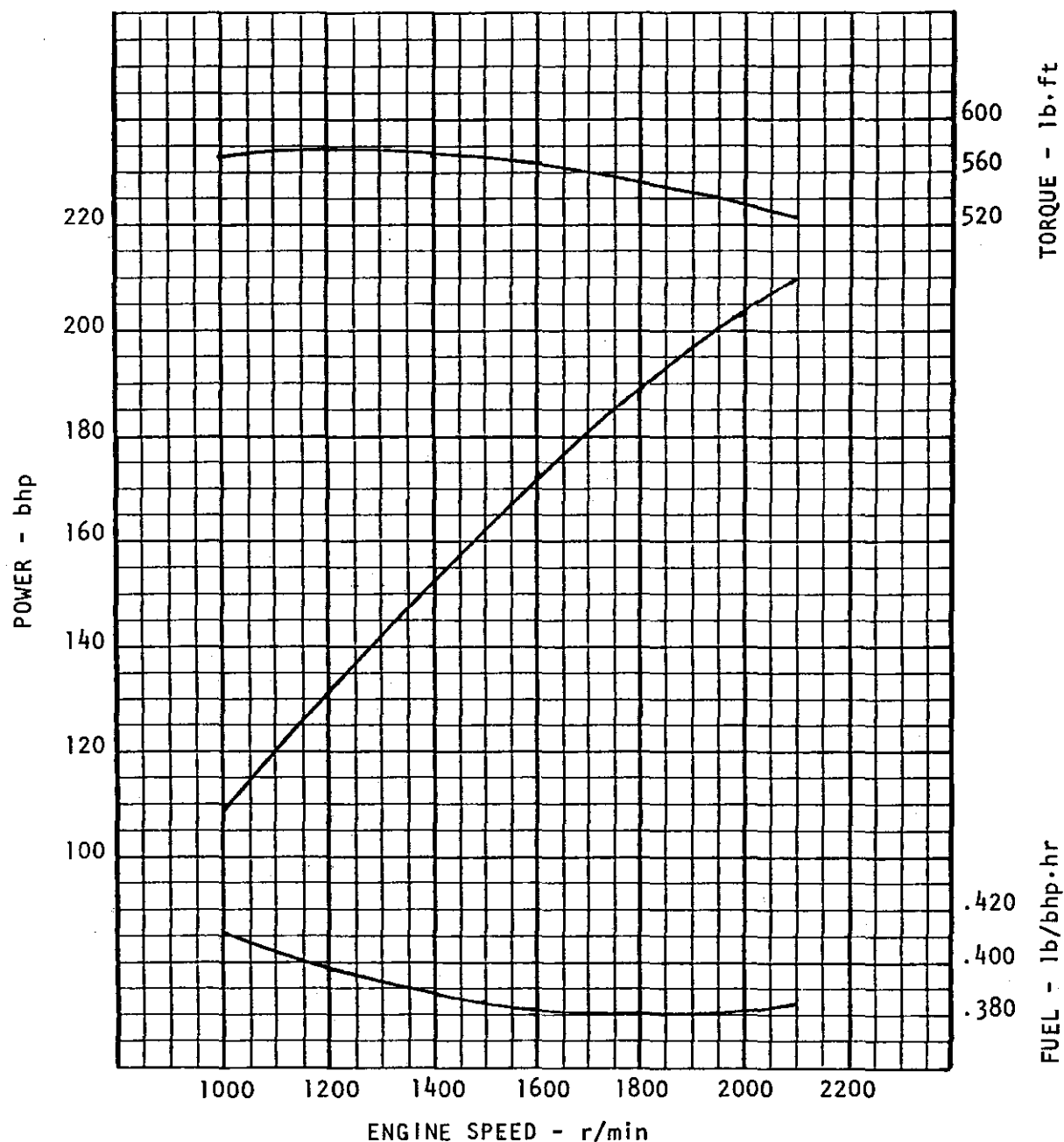
CALIFORNIA 1977-1979

CERTIFICATION: FEDERAL 1981-1985

MODEL: 6-71N

210 bhp @ 2100 r/min

577 lb·ft @ 1200 r/min

AIR INTAKE RESTRICTION - in. H₂O (kPa) . . . 10 (2.5)EXHAUST BACK PRESSURE - in. H₂O (kPa) . . . 15 (3.7)

- POWER OUTPUT GUARANTEED WITHIN 5% AT SAE J1349 CONDITIONS:
77°F (25°C) AIR INLET TEMPERATURE; 29.31 in. Hg (99kPa) DRY BAROMETER;
100°F (39°C) FUEL INLET TEMPERATURE (.853 SPECIFIC GRAVITY AT 60°F).
- CONVERSION FACTORS: POWER: kW = bhp × 0.746
FUEL: kg/kW·hr = lb/bhp·hr × 0.608
TORQUE: N·m = lb·ft × 1.356
- VALUES DERIVED ARE FROM CURRENTLY AVAILABLE DATA AND SUBJECT TO CHANGE WITHOUT NOTICE.

CERTIFIED BY:

P. J. Perdue

STAFF ENGINEER

CURVE NO.

E4-1061-52-25

DATE: 10-30-74

REV./DATE: 8/1-17-85

SHT. 1 OF 2

ENGINE SPECIFICATION DATA

General Data

Model.....	1067-8040
Number of Cylinders.....	6
Bore and Stroke-in(mm).....	4.25x5.00(108x127)
Displacement-in ³ (L).....	426(6.9)
Compression Ratio.....	18.7:1
Piston Speed-ft/min(m/min).....	1750(533)
Valves Per Cylinder.....	

Intake.....	NOT APPLICABLE
Exhaust.....	4
Combustion System.....	DIRECT INJECTION
Engine Type.....	INLINE
Aspiration.....	NATURAL

Configuration

Turbocharger.....	NOT APPLICABLE
Charge Air Cooling System.....	NONE
Blower Type.....	STANDARD
Blower Drive Ratio.....	2.00:1
Low Idle Speed-r/min.....	550
High Idle Speed-r/min.....	2250
Thrust Bearing Load Limit	
Continuous-lbf(N).....	600(2670)
Intermittent-lbf(N).....	1800(8000)
Engine Crankcase Vent System.....	OPEN
Maximum Pressure-in H ₂ O(kPa).....	3.0(0.75)

Physical Data

Size	
Length-in(mm).....	56.0(1422)
Width-in(mm).....	33.0(838)
Height-in(mm).....	44.0(1118)
Weight, dry-lb(kg).....	2150(975)
Center of Gravity Distance	
From R.F.O.B. (x axis)-in(mm).....	19.08(485)
Above Crankshaft (y axis)-in(mm).....	7.28(185)
Right of Crankshaft (z axis)-in(mm).....	0.58(14.7)
Installation Drawing.....	5131340
Maximum Allowable Static Bending Moment at Rear Face of FW Hsg-lbf ft(N m)....	600(814)

Fuel System

Fuel Injector/Timing.....	7E60/1.484
Fuel Injection Pump/Timing.....	NOT APPLICABLE
Fuel Consumption-lb/hr(kg/hr).....	80.6(36.6)
Fuel Consumption-gal/hr(L/hr).....	11.5(43.6)
Fuel Spill Rate-lb/hr(kg/hr).....	503.3(228.3)
Fuel Spill Rate-gal/hr(L/hr).....	72(272.5)
Total Fuel Flow-lb/hr(kg/hr).....	583.9(264.9)
Total Fuel Flow-gal/hr(L/hr).....	83.5(316.2)
Maximum Allowable Fuel Pump Suction	
Clean System-in Hg(kPa).....	6(20)
Dirty System-in Hg(kPa).....	12(41)
Fuel Filter Micron Size	
Primary - Micron.....	30
Secondary - Micron.....	10

Lubrication System

Oil Pressure	
Rated Speed-lbf/in ² (kPa).....	50(345)
Low Idle-lbf/in ² (kPa).....	5(34)
In Pan Oil Temperature-°F(°C).....	200-235(93-113)
Oil Flow-gal/min(L/min).....	32(121)
Oil Pan Capacity	
High-qt(L).....	22(20.8)
Low-qt(L).....	18(17.0)
Total Engine Oil Capacity with filters-qt(L).....	24(22.7)
Bypass Oil Filter Orifice-in(mm).....	0.101(2.57)
Engine Angularity Limits	
Front up - degrees.....	24
Front down - degrees.....	14
Side tilt - degrees.....	NOT AVAILABLE

Emission Data

CO-gm/hr.....	1670
HC-gm/hr.....	50
NO _x -gm/hr.....	1560
SO ₂ -gm/hr.....	370
Smoke	
Rated Speed - Bosch Number.....	NOT AVAILABLE
Peak Torque Speed - Bosch Number.....	NOT AVAILABLE
Noise - dB(A) @ 1m.....	103
Certification Approval.....	FEDERAL 1985

Cooling System

Engine Heat Rejection-Btu/min(kW).....	6100(107.3)
Engine Radiated Heat-Btu/min(kW).....	1180(20.8)
Coolant Flow-gal/min(L/min).....	79(299)
Thermostat	
Start to Open-°F(°C).....	170(77)
Fully Open-°F(°C).....	187(86)
Maximum Water Pump Inlet	
Restriction-in Hg(kPa).....	0
Engine Coolant Capacity-qt(L).....	21(20.8)
Minimum Pressure Cap-lbf/in ² (kPa).....	9.0(62.1)
Maximum Coolant Pressure (Exclusive of Pressure Cap)-lbf/in ² (kPa).....	NOT AVAILABLE
Maximum Top Tank Temperature-°F(°C)....	210(99)
Minimum Top Tank Temperature-°F(°C)....	160(71)
Minimum Coolant Fill Rate-gal/min(L/min).....	3.0(11.4)
Cooling Index	
Minimum Air to Boil-°F(°C).....	112(44.4)
Maximum Air to Water Diff.-°F(°C).....	100(55.6)
Ram Air Flow - Mile/hr(km/hr).....	15(24)
Degeneration-Air Injection	
Capacity-ft ³ /min(m ³ /min).....	0.5(0.017)
Drawdown - Minimum Requirement (or 10% of Cooling System Capacity-Whichever is Larger)-qt(L).....	4.0(3.8)

Air System

Maximum Allowable Temperature Rise (Ambient Air to Engine Inlet)-°F(°C)...	30(16.7)
Air Intake Restriction Maximum Limit	
Dirty Air Cleaner-in H ₂ O(kPa).....	25.0(6.2)
Clean Air Cleaner-1g H ₂ O(kPa).....	17.0(4.2)
Engine Air Flow - ft ³ /min(m ³ /min).....	660(18.7)
Engine Air Box/Manifold Pressure-in Hg(kPa).....	6.0(20.3)
Recommended Intake Pipe Dia.-in(mm)....	5.5(140)

Exhaust System

Exhaust Flow-ft ³ /min(m ³ /min).....	1570(44.5)
Exhaust Temperature-°F(°C).....	820(438)
Maximum Allowable Back	
Pressure-in Hg(kPa).....	4.0(13.5)
Recommended Exhaust Pipe Dia.	
Single-in(mm).....	4.0(102)
Dual-in(mm).....	NOT APPLICABLE
Exhaust Brake Max. Allowable Back	
Pressure-in Hg(kPa).....	NOT APPLICABLE

Electrical System

Recommended Battery Capacity(CCA @ 0°F)	
12 Volt System	
Above 32°F(0°C)-A.....	950
Below 32°F(0°C)-A.....	1250
24 Volt System	
Above 32°F(0°C)-A.....	475
Below 32°F(0°C)-A.....	625
Maximum Allowable Resistance of Starting Circuit	
12 volt system - ohm.....	0.0012
24 volt system - ohm.....	0.002

Performance Data

Power Output-bhp(kW).....	210(157)
Full Load Speed-r/min.....	2100
Peak Torque-lb ft(N m).....	577(784)
Peak Torque Speed-r/min.....	1200
BMEP-lbf/in ² (kPa).....	93(641)
Friction Power	
Rated Speed-bhp(kW).....	53(40)
Peak Torque Speed-bhp(kW).....	23(17)
Altitude Capability-ft(m).....	12000(3660)
Torque Available at 800 r/min-lb ft (N m).....	520(705)

Engine

Speed r/min	Power bhp(kW)	Torque lb ft(N m)	BSEC lb/bhp hr (g/kW hr)
2100	210(157)	525(712)	.384(234)
2000	204(152)	536(727)	.381(232)
1800	189(141)	551(747)	.380(231)
1600	173(129)	568(770)	.382(232)
1400	153(114)	574(778)	.389(237)
1200	132 (99)	577(784)	.397(241)
1000	109 (81)	572(776)	.411(250)

All values at rated speed and power and with standard engine hardware unless otherwise noted.

Curve No. E4-1061-52-25
Date: 10-30-74
Rev./Date: 8/1-17-85
Sht. 2 of 2



ENGINE PERFORMANCE CURVE

RATING: GROSS POWER - BASIC ENGINE

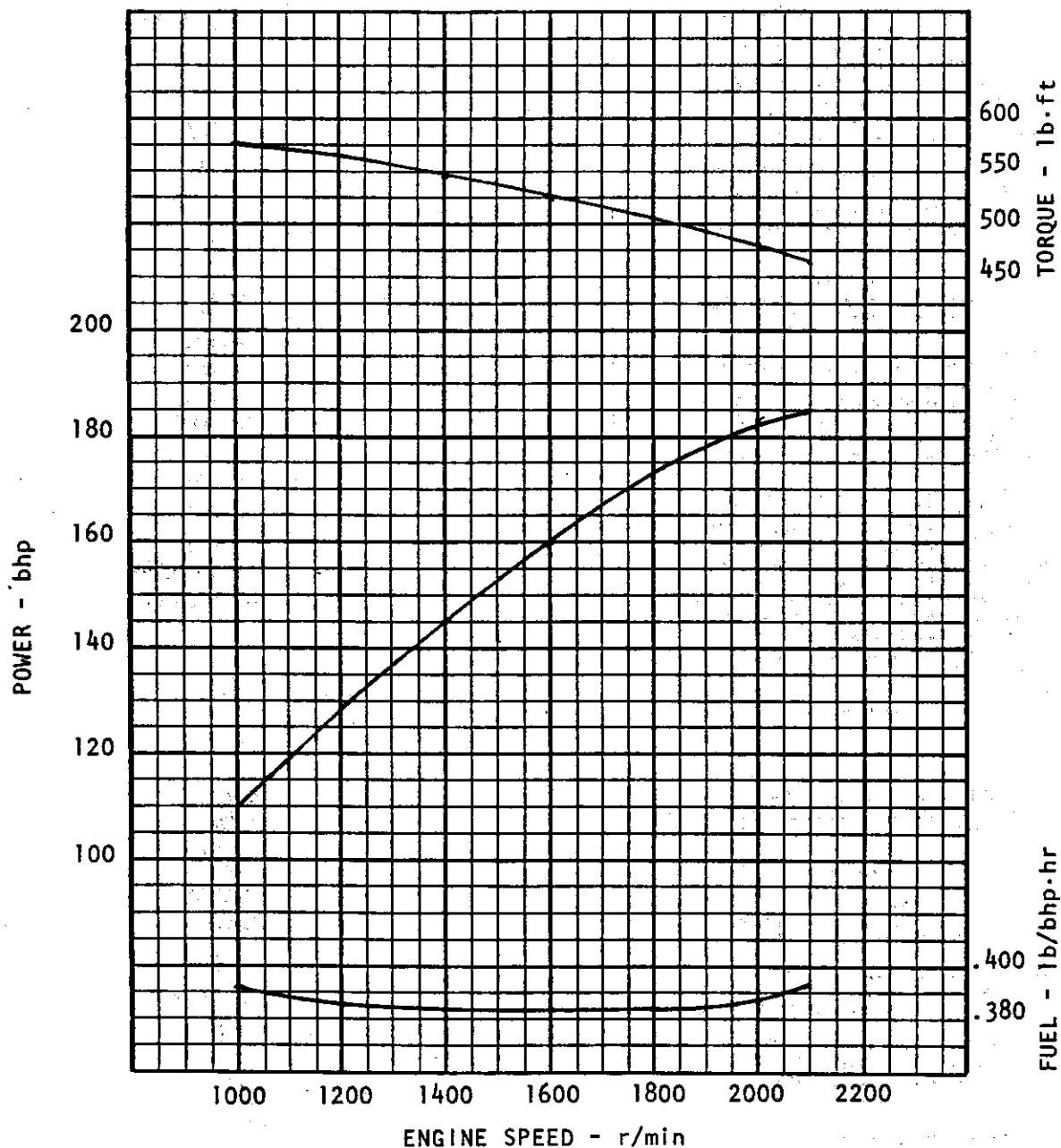
APPLICATION: AUTOMOTIVE

CERTIFICATION: FEDERAL 1979-1985

MODEL: 6-71N

185 bhp @ 2100 r/min

571 lb·ft @ 1000 r/min



AIR INTAKE RESTRICTION - in. H₂O (kPa) . . . 10 (2.5)

EXHAUST BACK PRESSURE - in. H₂O (kPa) . . . 15 (3.7)

- POWER OUTPUT GUARANTEED WITHIN 5% AT SAE J1349 CONDITIONS:
77°F (25°C) AIR INLET TEMPERATURE; 29.31 in. Hg (99kPa) DRY BAROMETER;
100°F (39°C) FUEL INLET TEMPERATURE (.853 SPECIFIC GRAVITY AT 60°F).

- CONVERSION FACTORS: POWER: kW = bhp x 0.746
FUEL: kg/kW·hr = lb/bhp·hr x 0.608
TORQUE: N·m = lb·ft x 1.356

- VALUES DERIVED ARE FROM CURRENTLY AVAILABLE DATA AND SUBJECT TO CHANGE WITHOUT NOTICE.

CERTIFIED BY:

P. J. Purdue

STAFF ENGINEER

CURVE NO.

E4-1061-52-36

DATE: 4-4-78

REV./DATE: 6/10-12-84

SHT. 1 OF 2

ENGINE SPECIFICATION DATA

General Data

Model.....	1067-8040
Number of Cylinders.....	6
Bore and Stroke-in(mm).....	4.25x5.00(108x127)
Displacement-in ³ (L).....	426(6.9)
Compression Ratio.....	18.7:1
Piston Speed-ft/min(m/min).....	1750(533)
Valves Per Cylinder	
Intake.....	NOT APPLICABLE
Exhaust.....	4
Combustion System.....	DIRECT INJECTION
Engine Type.....	IN LINE
Aspiration.....	NATURAL

Configuration

Turbocharger.....	NOT APPLICABLE
Charge Air Cooling System.....	NONE
Blower Type.....	STANDARD
Blower Drive Ratio.....	2.00:1
Low Idle Speed-r/min.....	550
High Idle Speed-r/min.....	2250
Thrust Bearing Load Limit	
Continuous-lbf(N).....	600(2670)
Intermittent-lbf(N).....	1800(8000)
Engine Crankcase Vent System.....	OPEN
Maximum Pressure-in H ₂ O(kPa).....	3.0(0.75)

Physical Data

Size	
Length-in(mm).....	56.0(1422)
Width-in(mm).....	33.0(838)
Height-in(mm).....	44.0(1118)
Weight, dry-lb(kg).....	2150(975)
Center of Gravity Distance	
From R.F.O.B. (x axis)-in(mm).....	19.08(485)
Above Crankshaft (y axis)-in(mm).....	7.28(185)
Right of Crankshaft (z axis)-in(mm).....	0.58(14.7)
Installation Drawing.....	5131340
Maximum Allowable Static Bending Moment at Rear Face of FW Hsg-lbf ft(N m).....	600(814)

Fuel System

Fuel Injector/Timing.....	7E50/1.484
Fuel Injection Pump/Timing.....	NOT APPLICABLE
Fuel Consumption-lb/hr(kg/hr).....	72.8(33.0)
Fuel Consumption-gal/hr(L/hr).....	10.4(39.4)
Fuel Spill Rate-lb/hr(kg/hr).....	503.3(228.3)
Fuel Spill Rate-gal/hr(L/hr).....	72(272.5)
Total Fuel Flow-lb/hr(kg/hr).....	576.1(261.3)
Total Fuel Flow-gal/hr(L/hr).....	82.4(312.0)
Maximum Allowable Fuel Pump Suction	
Clean System-in Hg(kPa).....	6(20)
Dirty System-in Hg(kPa).....	12(41)
Fuel Filter Micron Size	
Primary - Micron.....	30
Secondary - Micron.....	10

Lubrication System

Oil Pressure	
Rated Speed-lbf/in ² (kPa).....	50(345)
Low Idle-lbf/in ² (kPa).....	5(34)
In Pan Oil Temperature-°F(°C).....	200-235(93-113)
Oil Flow-gal/min(L/min).....	32(121)
Oil Pan Capacity	
High-qt(L).....	22(20.8)
Low-qt(L).....	18(17.0)
Total Engine Oil Capacity with filters-qt(L).....	24(22.7)
Bypass Oil Filter Orifice-in(mm).....	0.101(2.57)
Engine Angularity Limits	
Front up - degrees.....	24
Front down - degrees.....	14
Side tilt - degrees.....	NOT AVAILABLE

Emission Data

CO-gm/hr.....	2650
HC-gm/hr.....	75
NO _x -gm/hr.....	1540
SO ₂ -gm/hr.....	330
Smoke	
Rated Speed - Bosch Number.....	2.0
Peak Torque Speed - Bosch Number.....	2.2
Noise - dB(A) @ 1m.....	103
Certification Approval.....	FEDERAL 1985

Cooling System

Engine Heat Rejection-Btu/min(kW).....	5700(100.2)
Engine Radiated Heat-Btu/min(kW).....	1070(18.8)
Coolant Flow-gal/min(L/min).....	79(299)
Thermostat	
Start to Open-°F(°C).....	170(77)
Fully Open-°F(°C).....	187(86)
Maximum Water Pump Inlet	
Restriction-in Hg(kPa).....	0
Engine Coolant Capacity-qt(L).....	21(20.8)
Minimum Pressure Cap-lbf/in ² (kPa).....	9.0(62.1)
Maximum Coolant Pressure (Exclusive of Pressure Cap)-lbf/in ² (kPa).....	NOT AVAILABLE
Maximum Top Tank Temperature-°F(°C).....	210(99)
Minimum Top Tank Temperature-°F(°C).....	160(71)
Minimum Coolant Fill Rate-gal/min(L/min).....	3.0(11.4)
Cooling Index	
Minimum Air to Boil-°F(°C).....	112(44.4)
Maximum Air to Water Diff.-°F(°C).....	100(55.6)
Ram Air Flow - Miles/hr(km/hr).....	15(24)
Deaeration-Air Injection	
Capacity-ft ³ /min(m ³ /min).....	0.6(0.017)
Drawdown - Minimum Requirement (or 10% of Cooling System Capacity-Whichever is Larger)-qt(L).....	4.0(3.8)

Air System

Maximum Allowable Temperature Rise (Ambient Air to Engine Inlet)-°F(°C).....	30(16.7)
Air Intake Restriction Maximum Limit	
Dirty Air Cleaner-in H ₂ O(kPa).....	25.0(6.2)
Clean Air Cleaner-lg H ₂ O(kPa).....	17.0(4.2)
Engine Air Flow - ft ³ /min(m ³ /min).....	660(18.7)
Engine Air Box/Manifold Pressure-in Hg(kPa).....	6.0(20.3)
Recommended Intake Pipe Dia.-in(mm).....	5.5(140)

Exhaust System

Exhaust Flow-ft ³ /min(m ³ /min).....	1460(41.3)
Exhaust Temperature-°F(°C).....	730(388)
Maximum Allowable Back Pressure-in Hg(kPa).....	4.0(13.5)
Recommended Exhaust Pipe Dia.	
Single-in(mm).....	4.0(102)
Dual-in(mm).....	NOT APPLICABLE
Exhaust Brake Max. Allowable Back Pressure-in Hg(kPa).....	NOT APPLICABLE

Electrical System

Recommended Battery Capacity(CCA @ 0°F)	
12 Volt System	
Above 32°F(0°C)-A.....	950
Below 32°F(0°C)-A.....	1250
24 Volt System	
Above 32°F(0°C)-A.....	475
Below 32°F(0°C)-A.....	625
Maximum Allowable Resistance of Starting Circuit	
12 volt system - ohm.....	0.0012
24 volt system - ohm.....	0.002

Performance Data

Power Output-bhp(kW).....	185(138)
Full Load Speed-r/min.....	2100
Peak Torque-lb ft(N m).....	571(774)
Peak Torque Speed-r/min.....	1000
BMEP-lbf/in ² (kPa).....	82.0(565)
Friction Power	
Rated Speed-bhp(kW).....	53(40)
Peak Torque Speed-bhp(kW).....	18(13)
Altitude Capability-ft(m).....	14000(4270)
Torque Available at 800 r/min-lb ft (N m).....	520(705)

Engine

Speed r/min	Power bhp(kW)	Torque lb ft(N m)	BSEC lb/bhp hr (g/kW hr)
2100	185(138)	463(628)	.393(239)
2000	183(137)	480(651)	.387(235)
1800	173(129)	506(686)	.384(234)
1600	160(119)	525(712)	.384(234)
1400	145(108)	545(739)	.384(234)
1200	129 (96)	565(766)	.385(234)
1000	109 (81)	571(774)	.392(238)



ENGINE PERFORMANCE CURVE

RATING: GROSS POWER - BASIC ENGINE

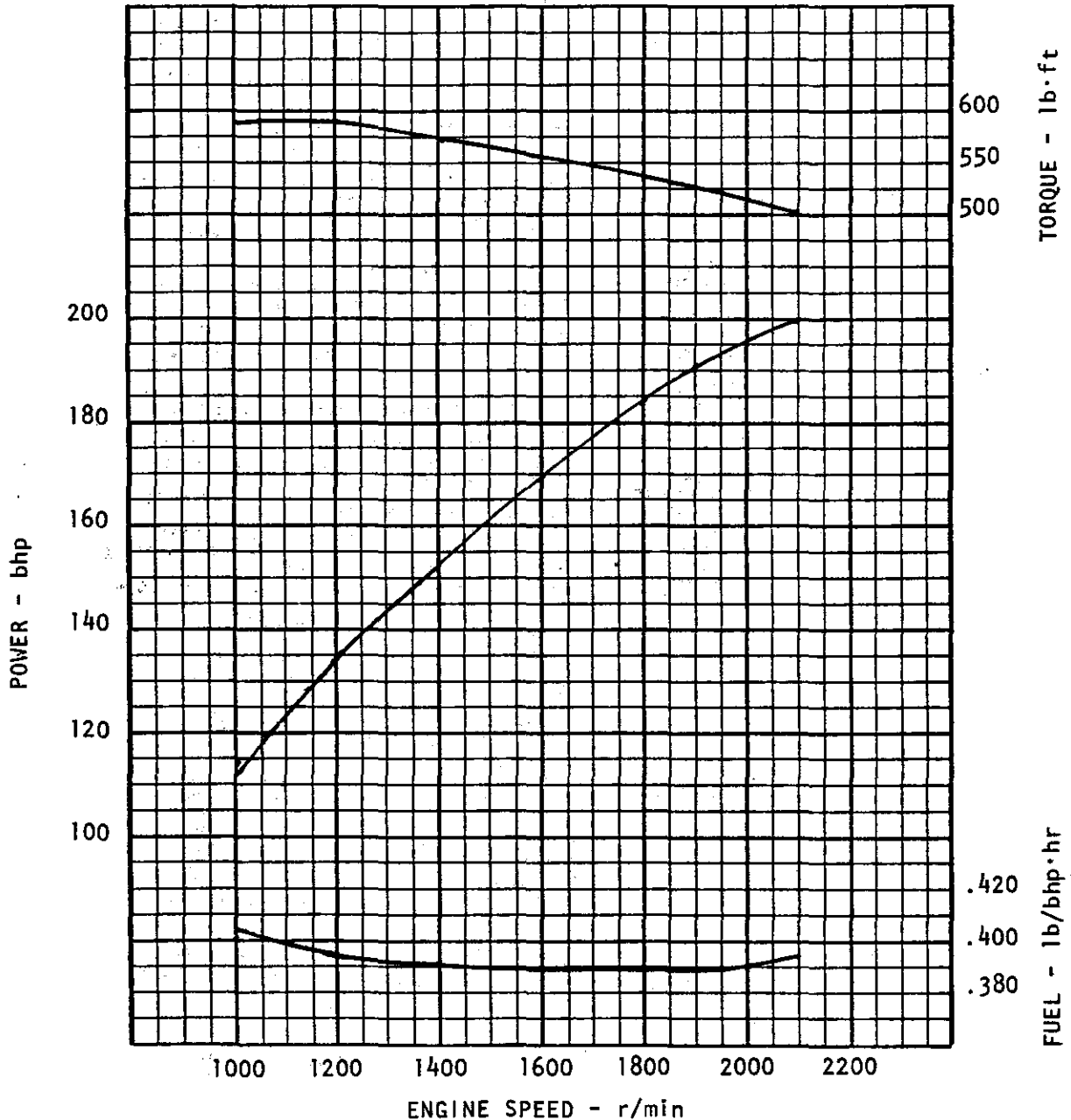
APPLICATION: AUTOMOTIVE

CERTIFICATION: FEDERAL 1979-1985

MODEL: 6-71N

200 bhp @ 2100 r/min

590 lb·ft @ 1200 r/min



AIR INTAKE RESTRICTION - in. H₂O (kPa) . . . 10 (2.5)

EXHAUST BACK PRESSURE - in. H₂O (kPa) . . . 15 (3.7)

- POWER OUTPUT GUARANTEED WITHIN 5% AT SAE J1349 CONDITIONS:
77°F (25°C) AIR INLET TEMPERATURE; 29.31 in. Hg (99kPa) DRY BAROMETER;
100°F (39°C) FUEL INLET TEMPERATURE (.853 SPECIFIC GRAVITY AT 60°F).
- CONVERSION FACTORS: POWER: kW = bhp x 0.746
FUEL: kg/kW·hr = lb/bhp·hr x 0.608
TORQUE: N·m = lb·ft x 1.356

• VALUES DERIVED ARE FROM CURRENTLY AVAILABLE DATA AND SUBJECT TO CHANGE WITHOUT NOTICE.

CERTIFIED BY:

A. J. Perdue

STAFF ENGINEER

CURVE NO.

E4-1061-52-37

DATE: 4-4-78

REV./DATE: 6/10-12-84

SHT. 1 OF 2

ENGINE SPECIFICATION DATA

General Data

Model.....	1067-8040
Number of Cylinders.....	6
Bore and Stroke-in(mm).....	4.25x5.00(108x127)
Displacement-in ³ (L).....	426(6.9)
Compression Ratio.....	18.7:1
Piston Speed-ft/min(m/min).....	1750(533)
Valves Per Cylinder.....	
Intake.....	NOT APPLICABLE
Exhaust.....	4
Combustion System.....	DIRECT INJECTION
Engine Type.....	INLINE
Aspiration.....	NATURAL

Configuration

Turbocharger.....	NOT APPLICABLE
Charge Air Cooling System.....	NONE
Blower Type.....	STANDARD
Blower Drive Ratio.....	2.00:1
Low Idle Speed-r/min.....	550
High Idle Speed-r/min.....	2250
Thrust Bearing Load Limit.....	
Continuous-lbf(N).....	600(2670)
Intermittent-lbf(N).....	1800(8000)
Engine Crankcase Vent System.....	OPEN
Maximum Pressure-in H ₂ O(kPa).....	3.0(0.75)

Physical Data

Size.....	
Length-in(mm).....	56.0(1422)
Width-in(mm).....	33.0(838)
Height-in(mm).....	44.0(1118)
Weight-dry-lb(kg).....	2150(975)
Center of Gravity Distance.....	
From R.F.O.B. (x axis)-in(mm).....	19.08(485)
Above Crankshaft (y axis)-in(mm).....	7.28(185)
Right of Crankshaft (z axis)-in(mm).....	0.58(14.7)
Installation Drawing.....	9131340
Maximum Allowable Static Bending Moment at Rear Face of FW Hsg-lbf ft(N m).....	600(814)

Fuel System

Fuel Injector/Timing.....	7E55/1.496
Fuel Injection Pump/Timing.....	NOT APPLICABLE
Fuel Consumption-lb/hr(kg/hr).....	78.8(35.7)
Fuel Consumption-gal/hr(L/hr).....	11.3(42.7)
Fuel Split Rate-lb/hr(kg/hr).....	503.3(228.3)
Fuel Split Rate-gal/hr(L/hr).....	72(272.5)
Total Fuel Flow-lb/hr(kg/hr).....	582.1(264.0)
Total Fuel Flow-gal/hr(L/hr).....	85.3(315.2)
Maximum Allowable Fuel Pump Suction.....	
Clean System-in Hg(kPa).....	6(20)
Dirty System-in Hg(kPa).....	12(41)
Fuel Filter Micron Size.....	
Primary - Micron.....	30
Secondary - Micron.....	10

Lubrication System

Oil Pressure.....	
Rated Speed-lbf/in ² (kPa).....	50(345)
Low Idle-lbf/in ² (kPa).....	5(34)
In Pan Oil Temperature-°F(°C).....	200-235(93-113)
Oil Flow-gal/min(L/min).....	32(121)
Oil Pan Capacity.....	
High-qt(L).....	22(20.8)
Low-qt(L).....	18(17.0)
Total Engine Oil Capacity with filters-qt(L).....	24(22.7)
Bypass Oil Filter Orifice-in(mm).....	0.101(2.57)
Engine Angularity Limits.....	
Front up - degrees.....	24
Front down - degrees.....	14
Side tilt - degrees.....	NOT AVAILABLE

Emission Data

CO-gm/hr.....	2870
HC-gm/hr.....	80
NO _x -gm/hr.....	1670
SO ₂ -gm/hr.....	360
Smoke.....	
Rated Speed - Bosch Number.....	2.1
Peak Torque Speed - Bosch Number.....	2.3
Noise - dB(A) @ 1m.....	103
Certification Approval.....	FEDERAL 1985

Cooling System

Engine Heat Rejection-Btu/min(kW).....	6200(109.0)
Engine Radiated Heat-Btu/min(kW).....	1160(20.4)
Coolant Flow-gal/min(L/min).....	79(299)
Thermostat.....	
Start to Open-°F(°C).....	170(77)
Fully Open-°F(°C).....	187(86)
Maximum Water Pump Inlet.....	
Restriction-in Hg(kPa).....	0
Engine Coolant Capacity-qt(L).....	21(20.8)
Minimum Pressure Cap-lbf/in ² (kPa).....	9.0(62.1)
Maximum Coolant Pressure (Exclusive of Pressure Cap)-lbf/in ² (kPa).....	NOT AVAILABLE
Maximum Top Tank Temperature-°F(°C).....	210(99)
Minimum Top Tank Temperature-°F(°C).....	160(71)
Minimum Coolant Fill Rate-gal/min(L/min).....	3.0(11.4)
Cooling Index.....	
Minimum Air to Boil-°F(°C).....	112(44.4)
Maximum Air to Water Diff.-°F(°C).....	100(55.6)
Ram Air Flow - Mile/hr(km/hr).....	15(24)
Deaeration-Air Injection.....	
Capacity-ft ³ /min(m ³ /min).....	0.6(0.017)
Drawdown - Minimum Requirement (or 10% of Cooling System Capacity-Whichever is Larger)-qt(L).....	4.0(3.8)

Air System

Maximum Allowable Temperature Rise (Ambient Air to Engine Inlet)-°F(°C).....	30(16.7)
Air Intake Restriction Maximum Limit.....	
Dirty Air Cleaner-in H ₂ O(kPa).....	25.0(6.2)
Clean Air Cleaner-lg H ₂ O(kPa).....	17.0(4.2)
Engine Air Flow - ft ³ /min(m ³ /min).....	660(18.7)
Engine Air Box/Manifold Pressure-in Hg(kPa).....	6.0(20.3)
Recommended Intake Pipe Dia.-in(mm).....	5.5(140)

Exhaust System

Exhaust Flow-ft ³ /min(m ³ /min).....	1510(42.8)
Exhaust Temperature-°F(°C).....	770(410)
Maximum Allowable Back Pressure-in Hg(kPa).....	4.0(13.5)
Recommended Exhaust Pipe Dia. Single-in(mm).....	4.0(102)
Dual-in(mm).....	NOT APPLICABLE
Exhaust Brake Max. Allowable Back Pressure-in Hg(kPa).....	NOT APPLICABLE

Electrical System

Recommended Battery Capacity(CCA @ 0°F).....	
12 Volt System.....	
Above 32°F(0°C)-A.....	950
Below 32°F(0°C)-A.....	1250
24 Volt System.....	
Above 32°F(0°C)-A.....	475
Below 32°F(0°C)-A.....	625
Maximum Allowable Resistance of Starting Circuit.....	
12 volt system - ohm.....	0.0012
24 volt system - ohm.....	0.002

Performance Data

Power Output-bhp(kW).....	200(149)
Full Load Speed-r/min.....	2100
Peak Torque-lb ft(N m).....	590(800)
Peak Torque Speed-r/min.....	1200
BMEP-lbf/in ² (kPa).....	88.6(611)
Friction Power.....	
Rated Speed-bhp(kW).....	53(40)
Peak Torque Speed-bhp(kW).....	23(17)
Altitude Capability-ft(m).....	14000(4270)
Torque Available at 800 r/min-lb ft (N m).....	520(705)

Engine

Speed r/min	Power bhp(kW)	Torque lb ft(N m)	BSEC lb/bhp hr (g/kW hr)
2100	200(149)	500(678)	.394(240)
2000	196(146)	515(698)	.390(237)
1800	184(137)	537(728)	.389(237)
1600	169(126)	556(754)	.389(237)
1400	153(114)	572(776)	.391(238)
1200	135(101)	590(800)	.393(239)
1000	112 (84)	588(797)	.404(246)

All values at rated speed and power and with standard engine hardware unless otherwise noted.

Curve No. E4-1061-52-37
Date: 4-4-78
Rev./Date: 6/10-12-84
Sht. 2 of 2



ENGINE PERFORMANCE CURVE

RATING: GROSS POWER - BASIC ENGINE

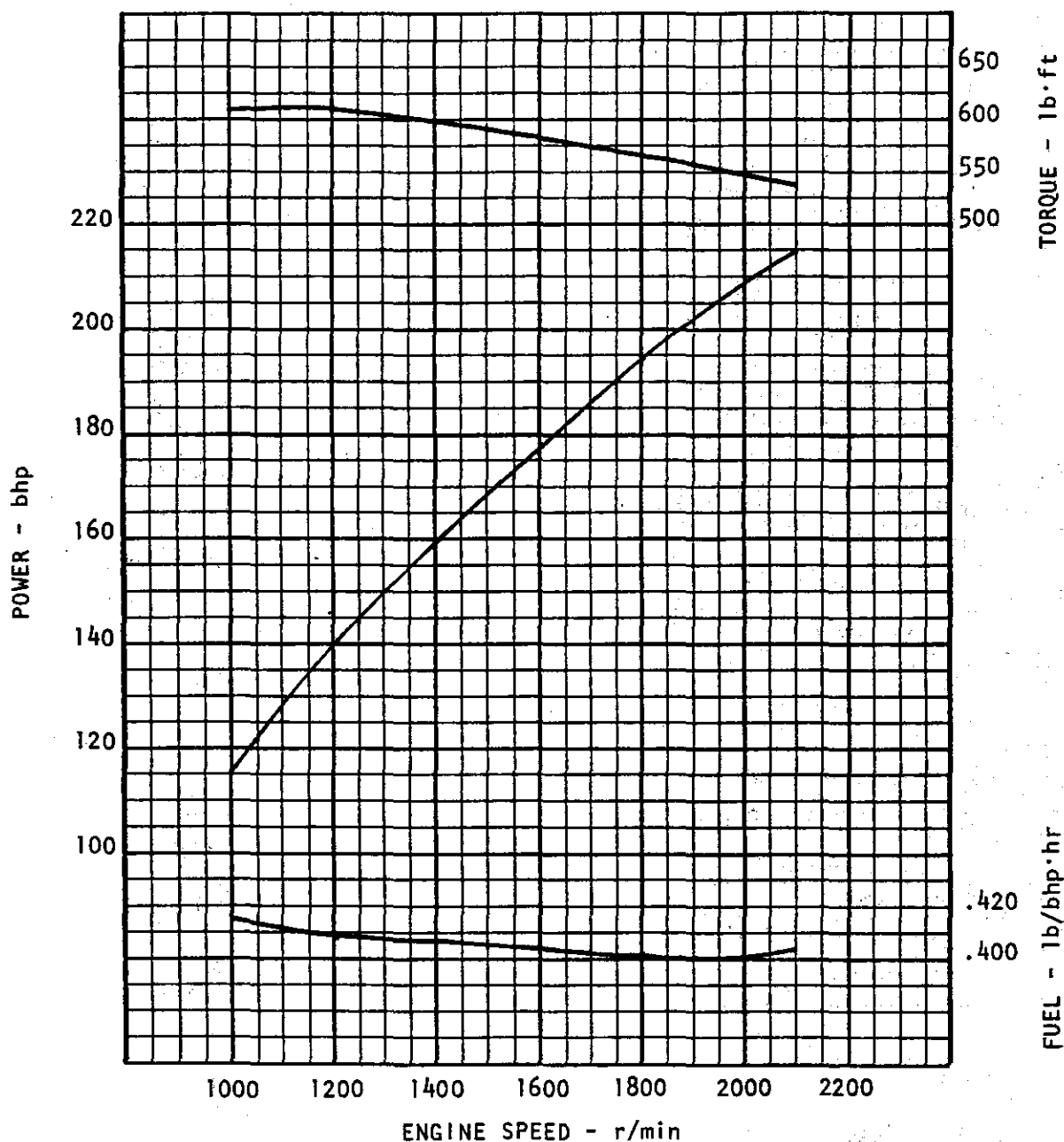
APPLICATION: AUTOMOTIVE

CERTIFICATION: FEDERAL 1979-1985

MODEL: 6-71N

215 bhp @ 2100 r/min

611 lb·ft @ 1200 r/min



AIR INTAKE RESTRICTION - in. H₂O (kPa) . . . 10 (2.5)
EXHAUST BACK PRESSURE - in. H₂O (kPa) . . . 15 (3.7)

- POWER OUTPUT GUARANTEED WITHIN 5% AT SAE J1349 CONDITIONS:
77°F (25°C) AIR INLET TEMPERATURE; 29.31 in. Hg (99kPa) DRY BAROMETER;
100°F (39°C) FUEL INLET TEMPERATURE (.853 SPECIFIC GRAVITY AT 60°F).
- CONVERSION FACTORS: POWER: kW = bhp × 0.746
FUEL: kg/kW·hr = lb/bhp·hr × 0.608
TORQUE: N·m = lb·ft × 1.356
- VALUES DERIVED ARE FROM CURRENTLY AVAILABLE DATA AND SUBJECT TO CHANGE WITHOUT NOTICE.

CERTIFIED BY:

PL Perdue

STAFF ENGINEER

CURVE NO.

E4-1061-52-38

DATE: 4-4-78

REV./DATE: 6/10-12-84

SHT. 1 OF 2

ENGINE SPECIFICATION DATA

General Data

Model.....	1067-8040
Number of Cylinders.....	6
Bore and Stroke-in(mm).....	4.25x5.00(108x127)
Displacement-in ³ (L).....	426(6.9)
Compression Ratio.....	18.7:1
Piston Speed-ft/min(m/min).....	1750(533)
Valves Per Cylinder.....	NOT APPLICABLE
Intake.....	4
Exhaust.....	4
Combustion System.....	DIRECT INJECTION
Engine Type.....	INLINE
Aspiration.....	NATURAL

Configuration

Turbocharger.....	NOT APPLICABLE
Charge Air Cooling System.....	NONE
Blower Type.....	STANDARD
Blower Drive Ratio.....	2.00:1
Low Idle Speed-r/min.....	550
High Idle Speed-r/min.....	2250
Thrust Bearing Load Limit	
Continuous-lbf(N).....	600(2670)
Intermittent-lbf(N).....	1800(8000)
Engine Crankcase Vent System.....	OPEN
Maximum Pressure-in H ₂ O(kPa).....	3.0(0.75)

Physical Data

Size	
Length-in(mm).....	56.0(1422)
Width-in(mm).....	33.0(838)
Height-in(mm).....	44.0(1118)
Weight, dry-lb(kg).....	2150(975)
Center of Gravity Distance	
From R.F.O.B. (x axis)-in(mm).....	19.08(485)
Above Crankshaft (y axis)-in(mm).....	7.28(185)
Right of Crankshaft (z axis)-in(mm).....	0.58(14.7)
Installation Drawing.....	5131340
Maximum Allowable Static Bending Moment at Rear Face of FW Hsg-lbf ft(N m)....	600(814)

Fuel System

Fuel Injector/Timing.....	7E60/1.484
Fuel Injection Pump/Timing.....	NOT APPLICABLE
Fuel Consumption-lb/hr(kg/hr).....	86.6(39.3)
Fuel Consumption-gal/hr(L/hr).....	12.4(46.9)
Fuel Spill Rate-lb/hr(kg/hr).....	503.3(228.3)
Fuel Spill Rate-gal/hr(L/hr).....	72(272.5)
Total Fuel Flow-lb/hr(kg/hr).....	589.9(267.6)
Total Fuel Flow-gal/hr(L/hr).....	84.4(319.5)
Maximum Allowable Fuel Pump Suction	
Clean System-in Hg(kPa).....	6(20)
Dirty System-in Hg(kPa).....	12(41)
Fuel Filter Micron Size	
Primary - Micron.....	30
Secondary - Micron.....	10

Lubrication System

Oil Pressure	
Rated Speed-lbf/in ² (kPa).....	50(345)
Low Idle-lbf/in ² (kPa).....	5(34)
In Pan Oil Temperature-°F(°C).....	200-235(93-113)
Oil Flow-gal/min(L/min).....	32(121)
Oil Pan Capacity	
High-qt(L).....	22(20.8)
Low-qt(L).....	18(17.0)
Total Engine Oil Capacity with filters-qt(L).....	24(22.7)
Bypass Oil Filter Orifice-in(mm).....	0.101(2.57)
Engine Angularity Limits	
Front up - degrees.....	24
Front down - degrees.....	14
Side tilt - degrees.....	NOT AVAILABLE

Emission Data

CO-gm/hr.....	3080
HC-gm/hr.....	85
NO _x -gm/hr.....	1800
SO ₂ -gm/hr.....	390
Smoke	
Rated Speed - Bosch Number.....	2.1
Peak Torque Speed - Bosch Number.....	2.4
Noise - dB(A) @ 1m.....	103
Certification Approval.....	FEDERAL 1985

Cooling System

Engine Heat Rejection-Btu/min(kW).....	6950(122.2)
Engine Radiated Heat-Btu/min(kW).....	1280(22.5)
Coolant Flow-gal/min(L/min).....	79(299)
Thermostat	
Start to Open-°F(°C).....	170(77)
Fully Open-°F(°C).....	187(86)
Maximum Water Pump Inlet	
Restriction-in Hg(kPa).....	0
Engine Coolant Capacity-qt(L).....	21(20.8)
Minimum Pressure Cap-lbf/in ² (kPa).....	9.0(62.1)
Maximum Coolant Pressure (Exclusive of Pressure Cap)-lbf/in ² (kPa).....	NOT AVAILABLE
Maximum Top Tank Temperature-°F(°C).....	210(99)
Minimum Top Tank Temperature-°F(°C).....	160(71)
Minimum Coolant Fill Rate-gal/min(L/min).....	3.0(11.4)
Cooling Index	
Minimum Air to Boil-°F(°C).....	112(44.4)
Maximum Air to Water Diff.-°F(°C).....	100(35.6)
Ram Air Flow - Mile/hr(km/hr).....	13(24)
Deaeration-Air Injection	
Capacity-ft ³ /min(m ³ /min).....	0.6(0.017)
Drawdown - Minimum Requirement (or 10% of Cooling System Capacity-Whichever is Larger)-qt(L).....	4.0(3.8)

Air System

Maximum Allowable Temperature Rise (Ambient Air to Engine Inlet)-°F(°C).....	30(16.7)
Air Intake Restriction Maximum Limit	
Dirty Air Cleaner-in H ₂ O(kPa).....	25.0(6.2)
Clean Air Cleaner-lg H ₂ O(kPa).....	17.0(4.2)
Engine Air Flow - ft ³ /min(m ³ /min).....	660(18.7)
Engine Air Box/Manifold Pressure-in Hg(kPa).....	6.0(20.3)
Recommended Intake Pipe Dia.-in(mm).....	5.5(140)

Exhaust System

Exhaust Flow-ft ³ /min(m ³ /min).....	1570(44.5)
Exhaust Temperature-°F(°C).....	820(438)
Maximum Allowable Back	
Pressure-in Hg(kPa).....	4.0(13.5)
Recommended Exhaust Pipe Dia.	
Single-in(mm).....	4.0(102)
Dual-in(mm).....	NOT APPLICABLE
Exhaust Brake Max. Allowable Back	
Pressure-in Hg(kPa).....	NOT APPLICABLE

Electrical System

Recommended Battery Capacity(CCA @ 0°F)	
12 Volt System	
Above 32°F(0°C)-A.....	950
Below 32°F(0°C)-A.....	1250
24 Volt System	
Above 32°F(0°C)-A.....	475
Below 32°F(0°C)-A.....	625
Maximum Allowable Resistance of Starting Circuit	
12 volt system - ohm.....	0.0012
24 volt system - ohm.....	0.002

Performance Data

Power Output-bhp(kW).....	215(160)
Full Load Speed-r/min.....	2100
Peak Torque-lb ft(N m).....	611(828)
Peak Torque Speed-r/min.....	1200
BMEP-lbf/in ² (kPa).....	95.3(657)
Friction Power	
Rated Speed-bhp(kW).....	53(40)
Peak Torque Speed-bhp(kW).....	23(17)
Altitude Capability-ft(m).....	12000(3660)
Torque Available at 800 r/min-lb ft (N m).....	520(705)

Engine

Speed r/min	Power bhp(kW)	Torque lb ft(N m)	BSEC lb/bhp hr (g/kW hr)
2100	215(160)	538(729)	.403(245)
2000	209(156)	549(744)	.401(244)
1800	194(145)	566(767)	.402(245)
1600	177(132)	581(788)	.404(246)
1400	159(119)	596(808)	.407(248)
1200	140(104)	611(828)	.409(249)
1000	116 (87)	609(826)	.415(252)

All values at rated speed and power and with standard engine hardware unless otherwise noted.

Curve No. E4-1061-52-38
Date: 4-4-78
Rev./Date: 6/10-12-84
Sht. 2 of 2