

SALES
TECH
DATA BOOK



Sales Tech
Data Book I
Vol. 2

Engine
Performance
Curves

Series 53 & 149

1057007-02

SALES TECH DATA BOOK I

VOLUME 2

ENGINE PERFORMANCE CURVES

SERIES 53 AND 149



Detroit Diesel Allison
Division of General Motors Corporation

13400 West Outer Drive
Detroit, Michigan 48228



Detroit Diesel Allison

Division of General Motors Corporation

GENERAL MOTORS CORPORATION • 13400 West Outer Drive Detroit, Michigan 48228
IN CANADA GENERAL MOTORS DIESEL LIMITED • LONDON ONTARIO

SALES TECHNICAL DATA BOOK I VOL. 2 18SA0074-02

Name _____

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Check each number of each supplement mailing as received and insert the pages in your Application Data Book at once.

47 ☒ 10/71	62 ☐	77 ☐	92 ☐
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59 ☐	74 ☐	89 ☐	104 ☐
60 ☐	75 ☐	90 ☐	105 ☐
61 ☐	76 ☐	91 ☐	106 ☐



2-531

3-53T ENGINE CURVES

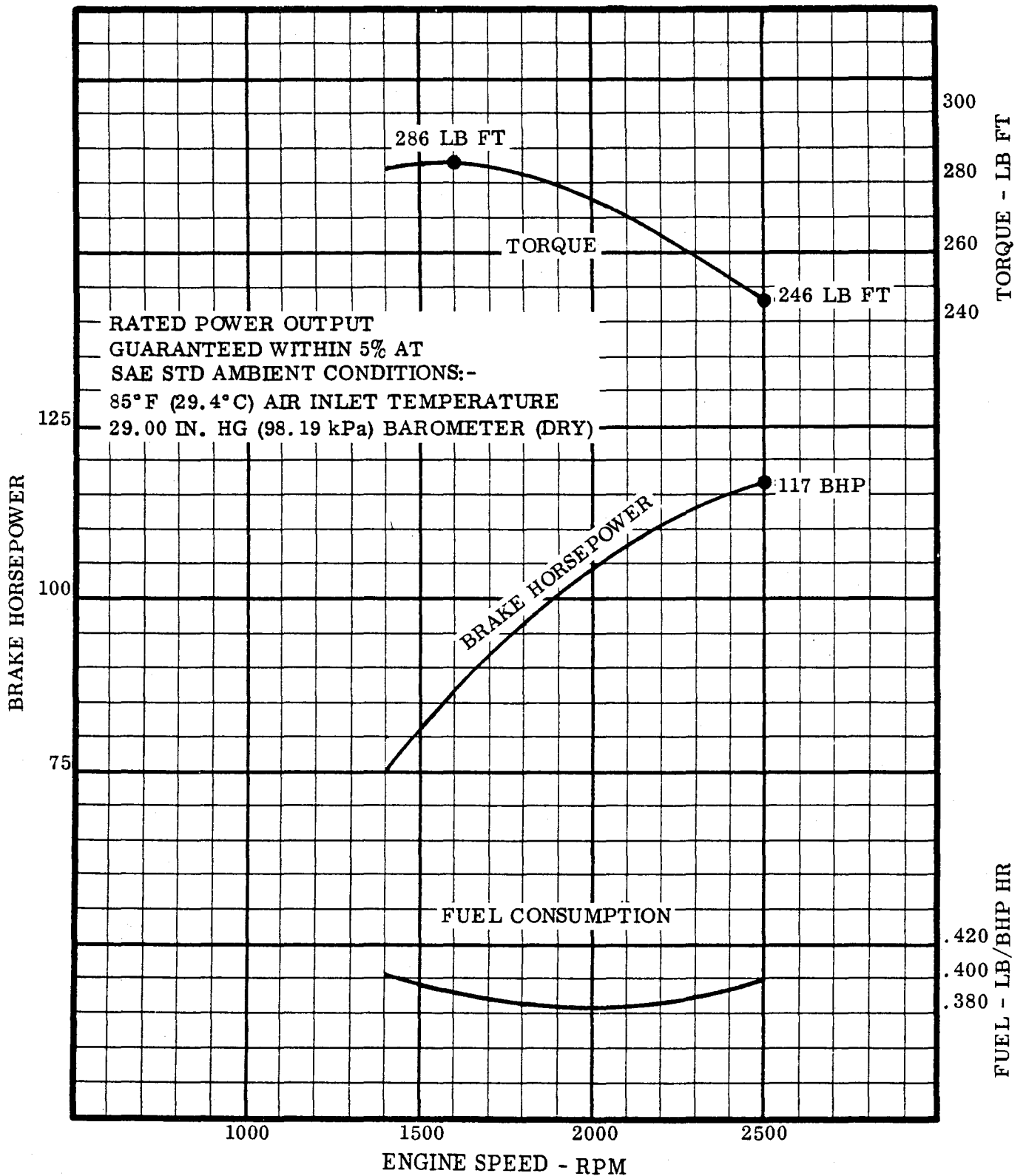
<u>Engine</u>	<u>Injector</u>	<u>BHP/RPM</u>	<u>Torque/RPM</u>	<u>Curve Number</u>	<u>Date</u>
3L-53T	5A55	117/2500	286/1600	E4-5031-32-2	3/2/79
3L-53T	5A60	125/2500	302/1600	E4-5031-32-1	3/2/79
3L-53T	N65	131/2500	312/1600	E4-5031-32-3	3/27/79

E4M-0000-00-25
6-29-79



Detroit Diesel Allison
Division of General Motors Corporation

BASIC ENGINE
MODEL 3L-53T DIESEL - INDUSTRIAL
5A55 INJECTORS, 1.496 TIMING
T04B TURBOCHARGER (.81 A/R HSG.)



3L-53T 117 BHP ENGINE SPECIFICATION
INDUSTRIAL

General Engine Specification:

Model	5033-8300
Number of cylinders	3
Bore and stroke - in. (mm)	3.875 (98) x 4.5 (114)
Displacement - in. ³ (litres)	159 (2.61)
Compression ratio	18.7:1
Firing order:	
Clockwise rotation (RH)	1-3-2
Counterclockwise rotation (LH)	1-2-3
Approximate dimensions & weight:	
Length - in. (mm)	33.4 (848)
Width - in. (mm)	28.6 (726)
Height - in. (mm)	39.8 (1011)
Weight - lbs. (kg)	1000 lbs. (454)

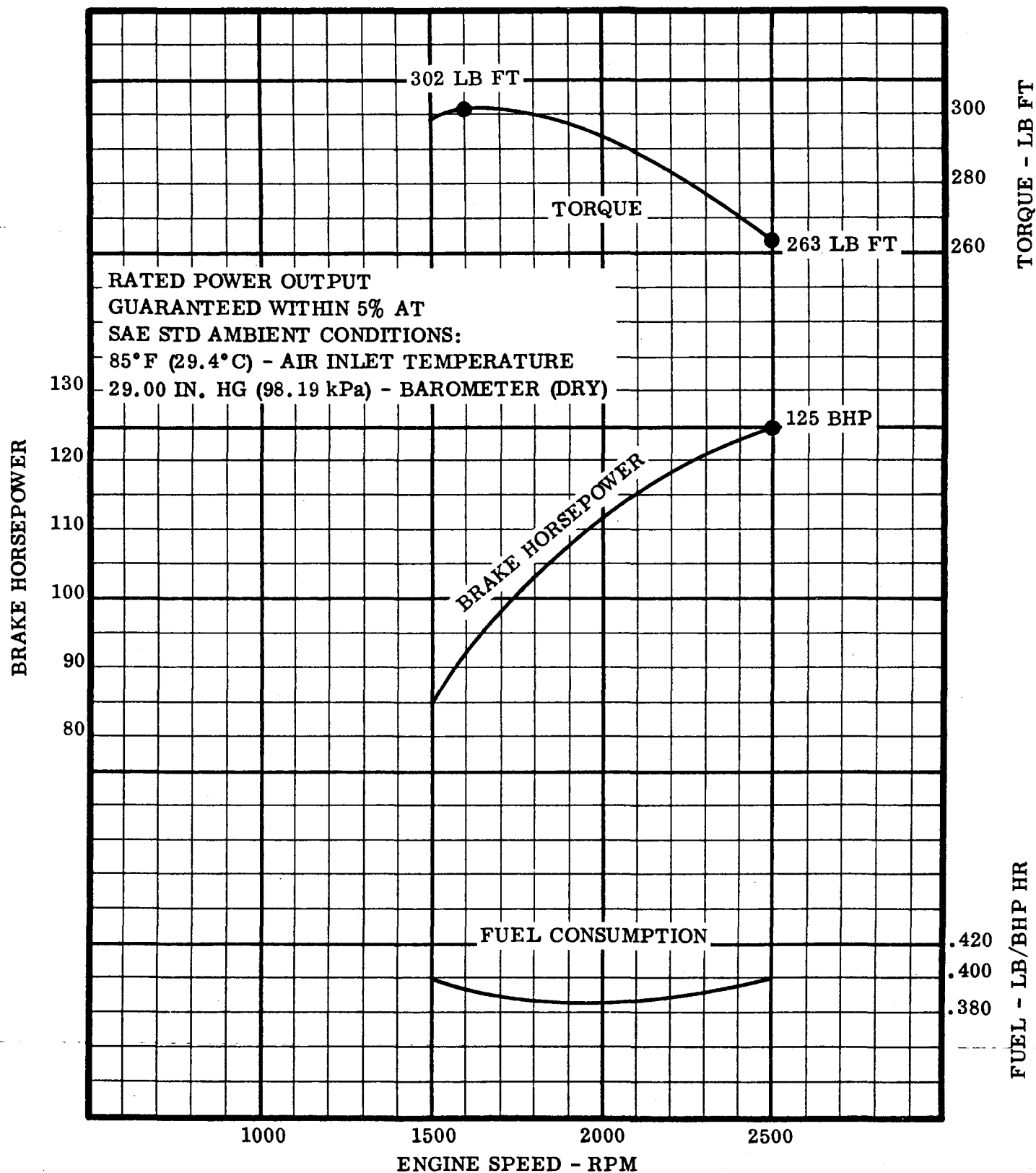
Technical Engine Specifications:

Injector	5A55
Engine speed - RPM	2500
Brake horsepower - BHP (kW)	117 (87.3)
BMEP - PSI (kPa)	117 (807)
Peak torque LB FT (N·m) @ RPM	286 (388) @ 1600
Fuel consumption - LB/HR (kg/HR)	46.8 (21.2)
Specific fuel cons. - LB/BHP HR (g/kW h)	.400 (243)
Fuel pump suction at pump inlet	
Maximum - in. Hg (kPa)	
Clean system	6 (20.32)
Dirty system	12 (40.63)
Airflow - CFM (m ³ /min.)	487 (13.8)
Airbox pressure - Min. in. Hg (kPa)	34 (115)
Air intake restriction, max. in. H ₂ O (kPa)	
(Dry type air cleaner)	
Full load - dirty	20 (4.98)
- clean	12 (2.99)
No load - dirty	12 (2.99)
- clean	7.3 (1.82)
Exhaust temperature - °F (°C)	725 (385)
Exhaust flow - CFM (m ³ /min.)	1059 (30.0)
Exhaust back pressure, max. in. Hg (kPa)	
Full load	2.5 (8.47)
No load	1.8 (6.09)
Coolant flow - GPM (litre/min.)	40 (151.4)
Coolant normal operating temp. °F (°C)	180 (82.2)
Heat rejection - BTU/HP Min. (W/kW)	30 (707)
Coolant inlet restriction, max. - in. Hg (kPa)	3.0 (10.16)
Lubricating oil pressure, normal - psi (kPa)	40 (275.80) - 60 (413.70)
Lubricating oil temp., in pan °F (°C)	200 (93.3) - 235 (112.8)



Detroit Diesel Allison
Division of General Motors Corporation

BASIC ENGINE
MODEL 3L-53T DIESEL - INDUSTRIAL
5A60 INJECTORS, 1.496 TIMING
T04B TURBOCHARGER (.81 A/R HSG.)



3L-53T 125 BHP ENGINE SPECIFICATION
INDUSTRIAL

General Engine Specification:

Model	5033-8300
Number of cylinders	3
Bore and stroke - in. (mm)	3.875 (98) x 4.5 (114)
Displacement - in. ³ (litres)	159 (2.61)
Compression ratio	18.7:1
Firing order:	
Clockwise rotation (RH)	1-3-2
Counterclockwise rotation (LH)	1-2-3
Approximate dimensions & weight:	
Length - in. (mm)	33.4 (848)
Width - in. (mm)	28.6 (726)
Height - in. (mm)	39.8 (1011)
Weight - lbs. (kg)	1000 (454)

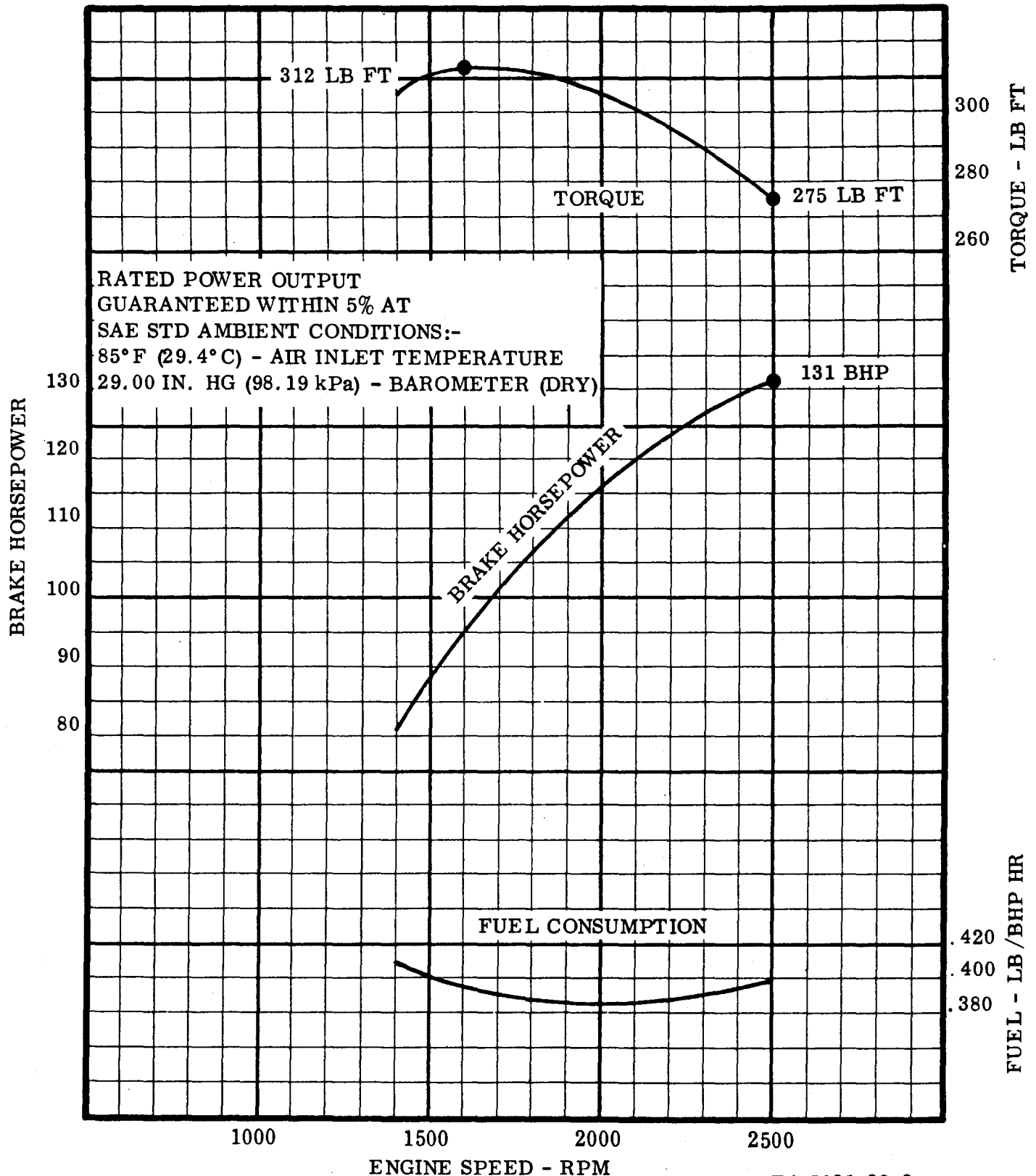
Technical Engine Specifications:

Injector	5A60
Engine speed - RPM	2500
Brake horsepower - BHP (kW)	125 (93)
BMEP - PSI (kPa)	125 (862)
Peak torque LB FT (N·m) @ RPM	302 (409 @ 1600)
Fuel consumption - LB/HR (kg/HR)	50.0 (22.7)
Specific fuel cons. - LB/BHP HR (g/kW h)	.400 (243)
Fuel pump suction at pump inlet	
Maximum - in. Hg (kPa)	
Clean system	6 (20.32)
Dirty system	12 (40.63)
Airflow - CFM (m ³ /min.)	500 (14.16)
Airbox pressure - Min. in. Hg (kPa)	37 (125.3)
Air intake restriction, max. in. H ₂ O (kPa)	
(Dry type air cleaner)	
Full load - dirty	20 (4.98)
- clean	12 (2.99)
No load - dirty	12 (2.99)
- clean	7.3 (1.82)
Exhaust temperature - °F (°C)	750 (400)
Exhaust flow - CFM (m ³ /min.)	1110 (31.44)
Exhaust back pressure, max. in. Hg (kPa)	
Full load	2.5 (8.47)
No load	1.8 (6.09)
Coolant flow - GPM (litre/min.)	40 (151.4)
Coolant normal operating temp. °F (°C)	180 (82.2)
Heat rejection - BTU/HP Min. (W/kW)	30 (707)
Coolant inlet restriction, max. - in. Hg (kPa)	3.0 (10.16)
Lubricating oil pressure, normal - psi (kPa)	40 (275.80) - 60 (413.70)
Lubricating oil temp., in pan °F (°C)	200 (93.3) - 235 (112.8)



Detroit Diesel Allison
Division of General Motors Corporation

BASIC ENGINE
MODEL 3L-53T DIESEL - INDUSTRIAL
N65 INJECTORS, 1.508 TIMING
T04B TURBOCHARGER (.81 A/R HSG.)



3L-53T 131 BHP ENGINE SPECIFICATION
INDUSTRIAL

General Engine Specification:

Model	5033-8300
Number of cylinders	3
Bore and stroke - in. (mm)	3.875 (98) x 4.5 (114)
Displacement - in. ³ (litres)	159 (2.61)
Compression ratio	18.7:1
Firing order:	
Clockwise rotation (RH)	1-3-2
Counterclockwise rotation (LH)	1-2-3
Approximate dimensions & weight:	
Length - in. (mm)	33.4 (848)
Width - in. (mm)	28.6 (726)
Height - in. (mm)	39.8 (1011)
Weight - lbs. (kg)	1000 (454)

Technical Engine Specifications:

Injector	N65
Engine speed - RPM	2500
Brake horsepower - BHP (kW)	131 (97.7)
BMEP - PSI (kPa)	130 (896)
Peak torque LB FT (N·m) @ RPM	312 (423) @ 1600
Fuel consumption - LB/HR (kg/HR)	52.3 (23.7)
Specific fuel cons. - LB/BHP HR (g/kW h)	.398 (242)
Fuel pump suction at pump inlet	
Maximum - in. Hg (kPa)	
Clean system	6 (20.32)
Dirty system	12 (40.63)
Airflow - CFM (m ³ /min.)	510 (14.4)
Airbox pressure - Min. in. Hg (kPa)	39 (132)
Air intake restriction, max. in. H ₂ O (kPa)	
(Dry type air cleaner)	
Full load - dirty	20 (4.98)
- clean	12 (2.99)
No load - dirty	12 (2.99)
- clean	7.3 (1.82)
Exhaust temperature - °F (°C)	760 (404)
Exhaust flow - CFM (m ³ /min.)	1142 (32.3)
Exhaust back pressure, max. in. Hg (kPa)	
Full load	2.5 (8.47)
No load	1.8 (6.09)
Coolant flow - GPM (litre/min.)	40 (151.4)
Coolant normal operating temp. °F (°C)	180 (82.2)
Heat rejection - BTU/HP Min. (W/kW)	30 (707)
Coolant inlet restriction, max. - in. Hg (kPa)	3.0 (10.16)
Lubricating oil pressure, normal - psi (kPa)	40 (275.80) - 60 (413.70)
Lubricating oil temp., in pan °F (°C)	200 (93.3) - 235 (112.8)

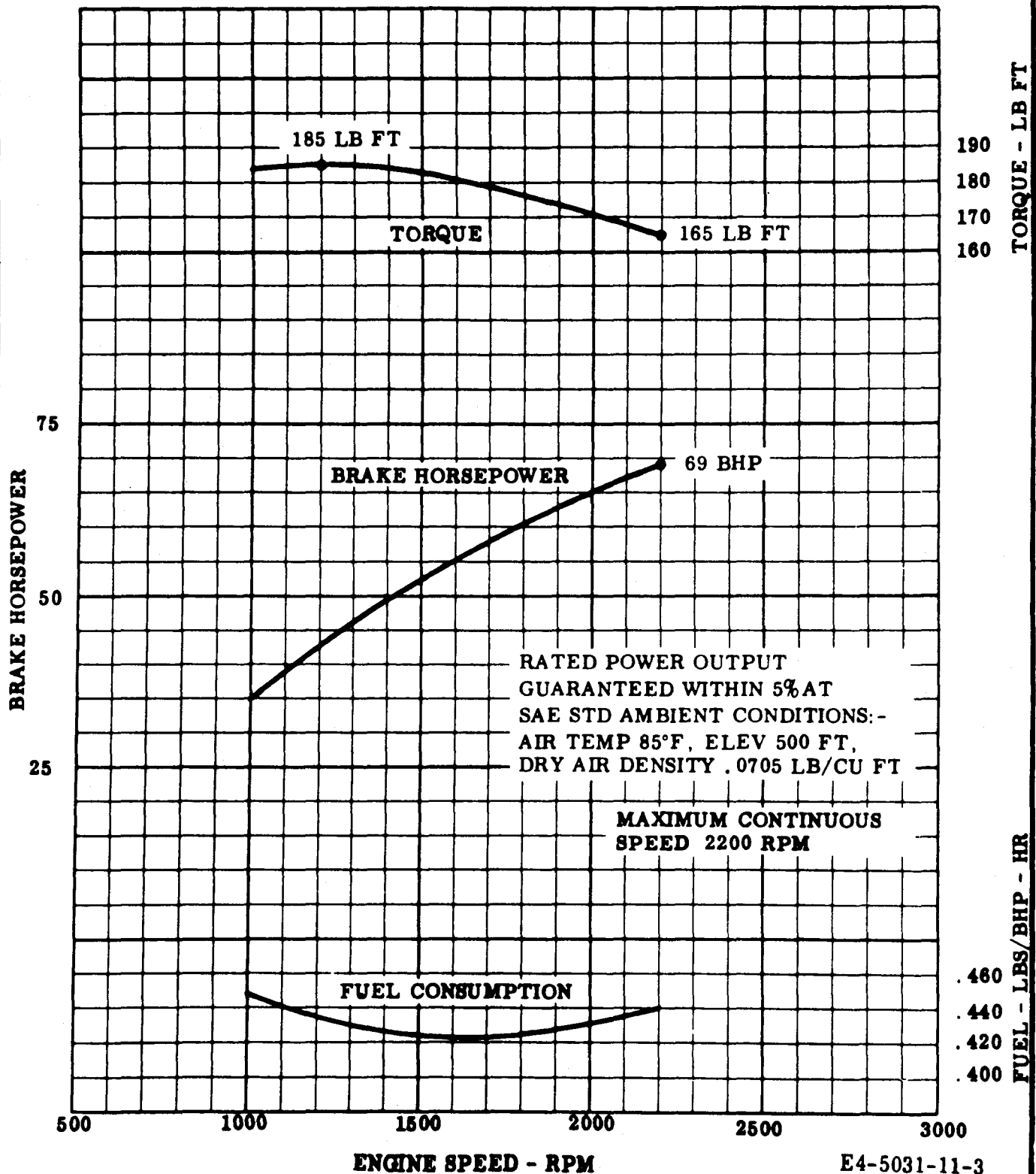
200 (2)



DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

BASIC ENGINE
MODEL 3-53 DIESEL
2-VALVE HEAD
S40 INJECTORS

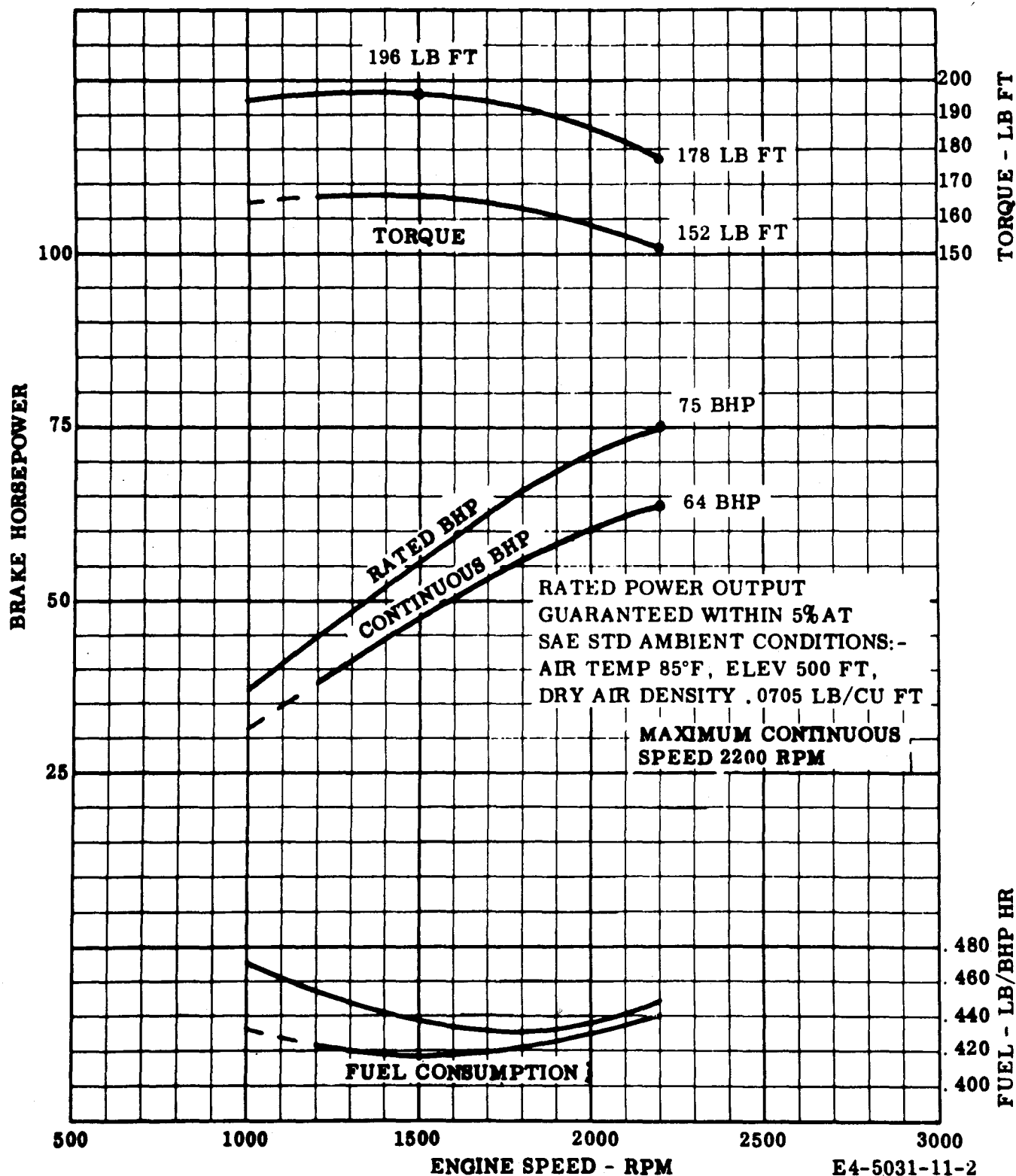




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

BASIC ENGINE
MODEL 3-53 DIESEL
2 VALVE HEAD
S45 INJECTORS

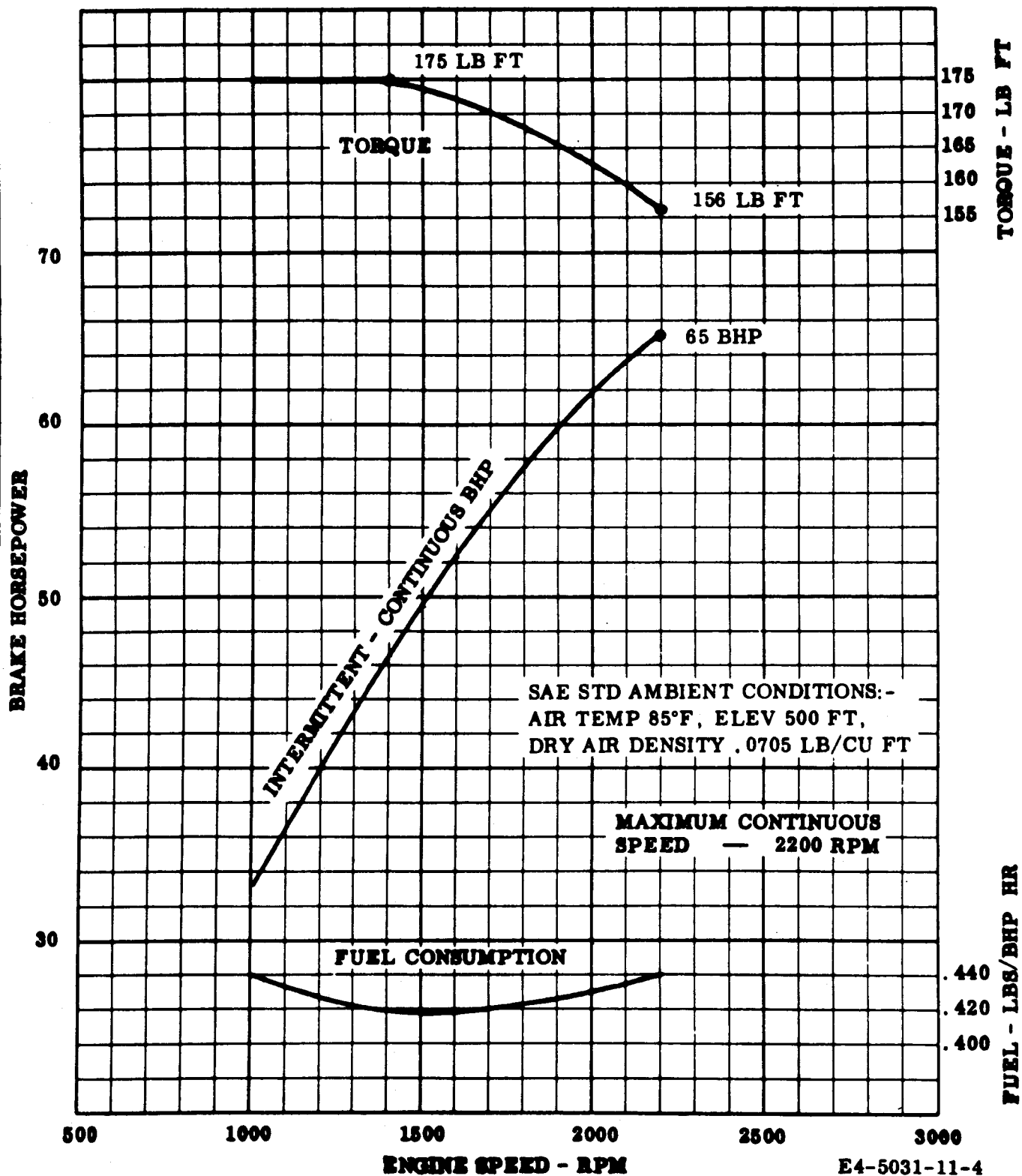




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

BASIC ENGINE
MODEL 3-53 DIESEL
2-VALVE HEAD
S40 or S45 INJECTORS





DETROIT DIESEL ENGINE DIVISION

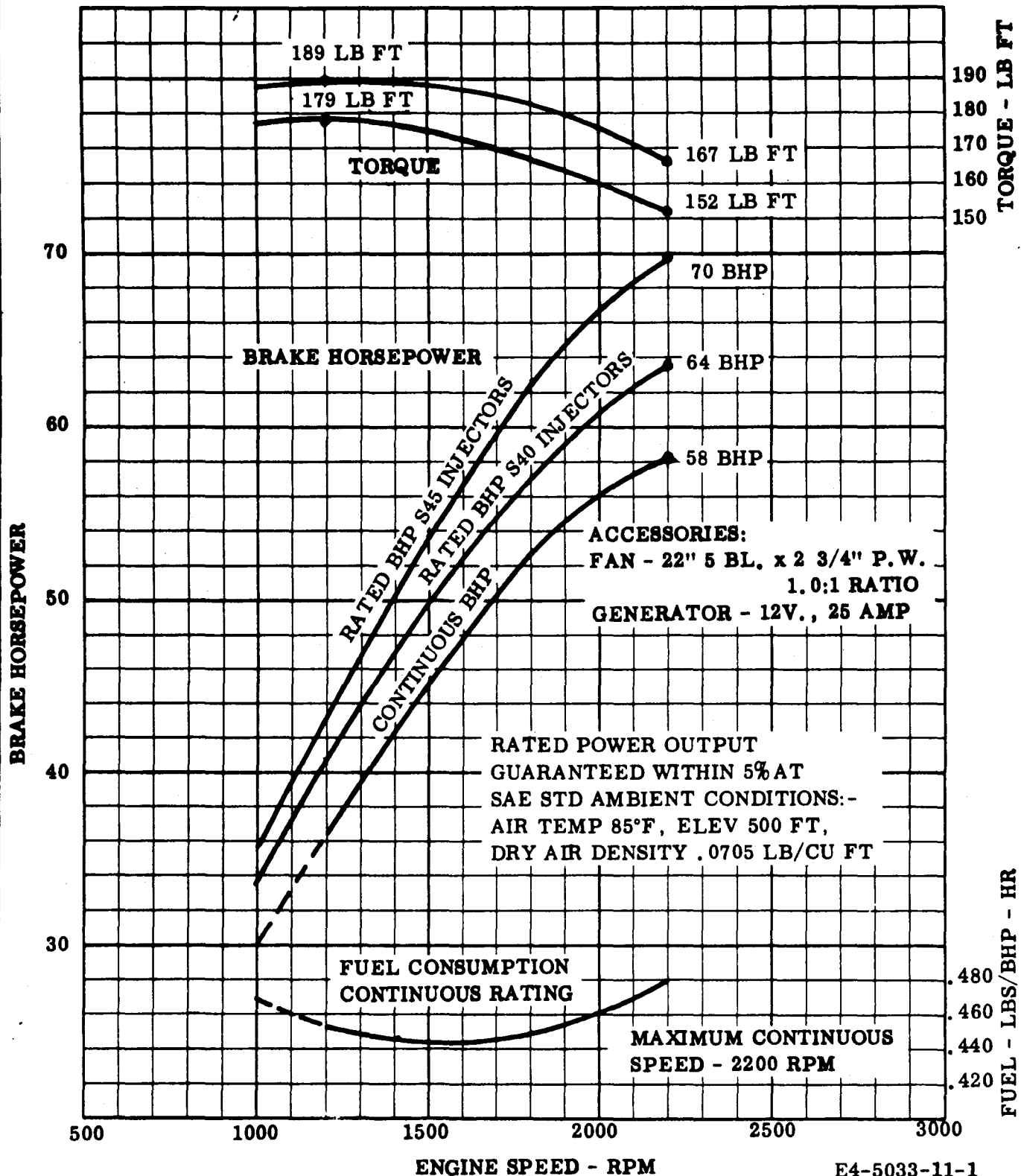
GENERAL MOTORS CORPORATION

SERIES 53

MODEL 5033-7101

(3-53 2 VALVE HEAD)

PERFORMANCE WITH STANDARD EQUIPMENT





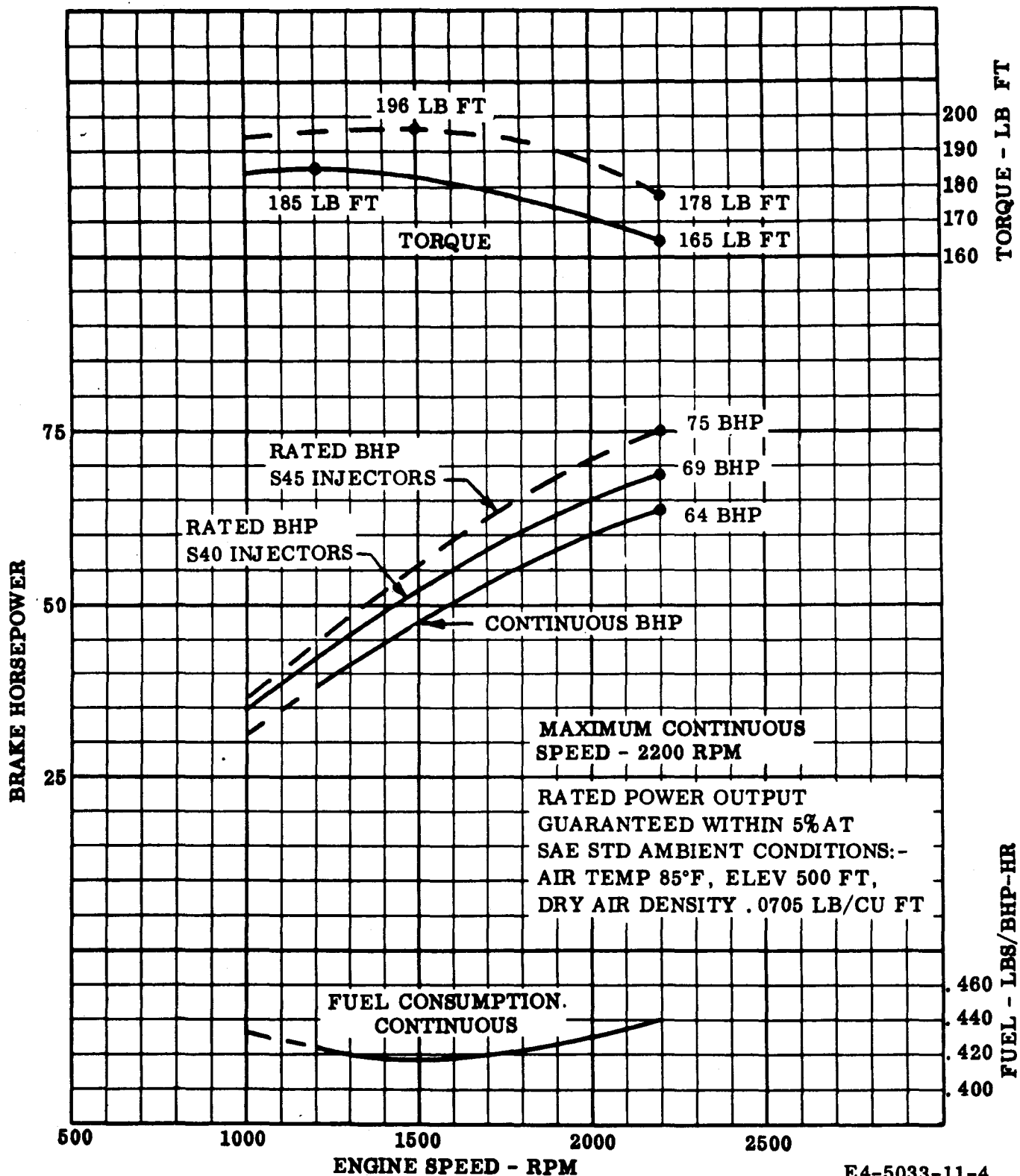
DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

SERIES 53

MODEL 5034 - 8100

PERFORMANCE WITH STANDARD EQUIPMENT



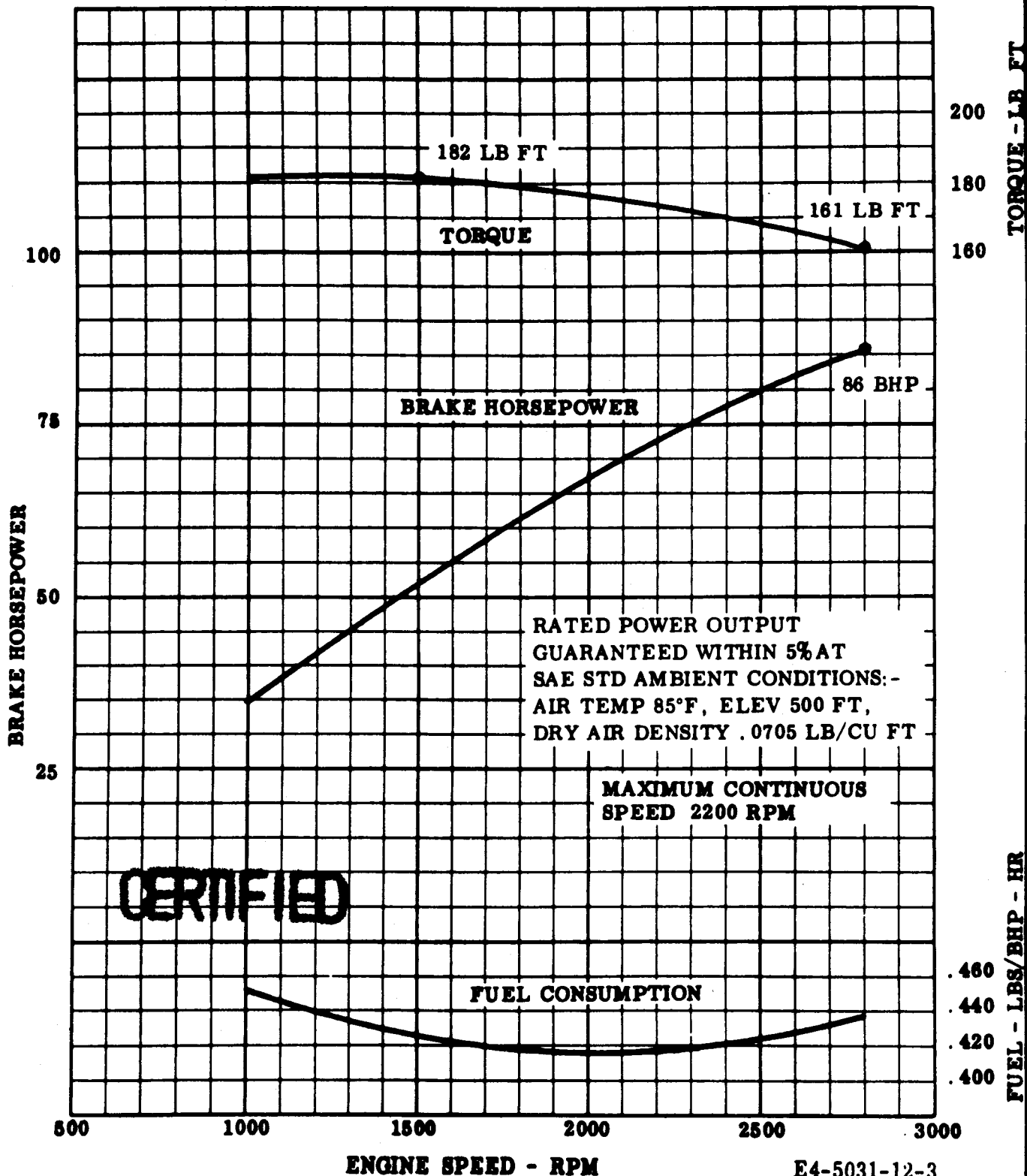
353 (4) & N



DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

BASIC ENGINE
MODEL 3-53 DIESEL
4-VALVE HEAD
840 INJECTORS

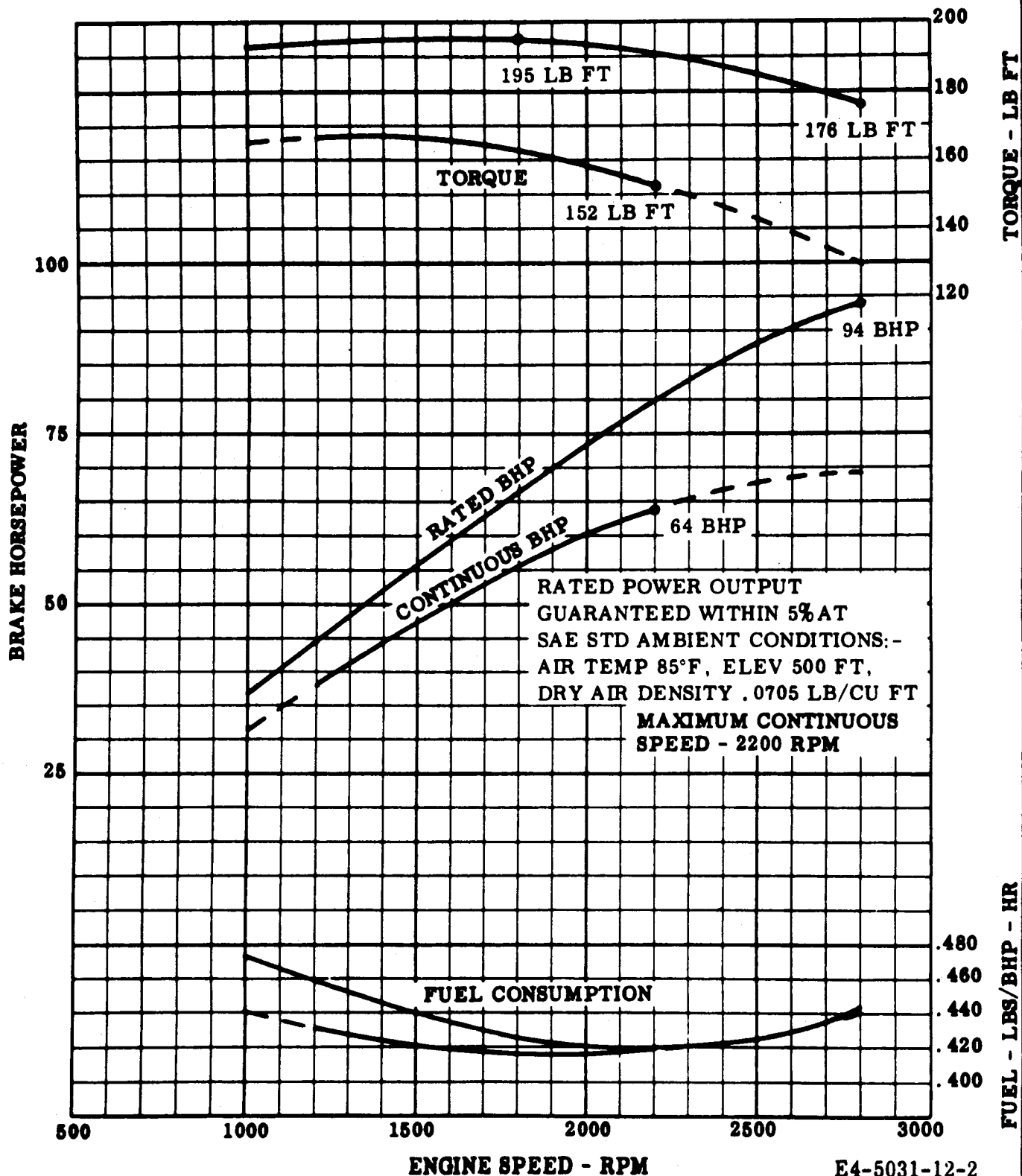




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

BASIC ENGINE
MODEL 3-53 DIESEL
4-VALVE HEAD
S45 INJECTORS

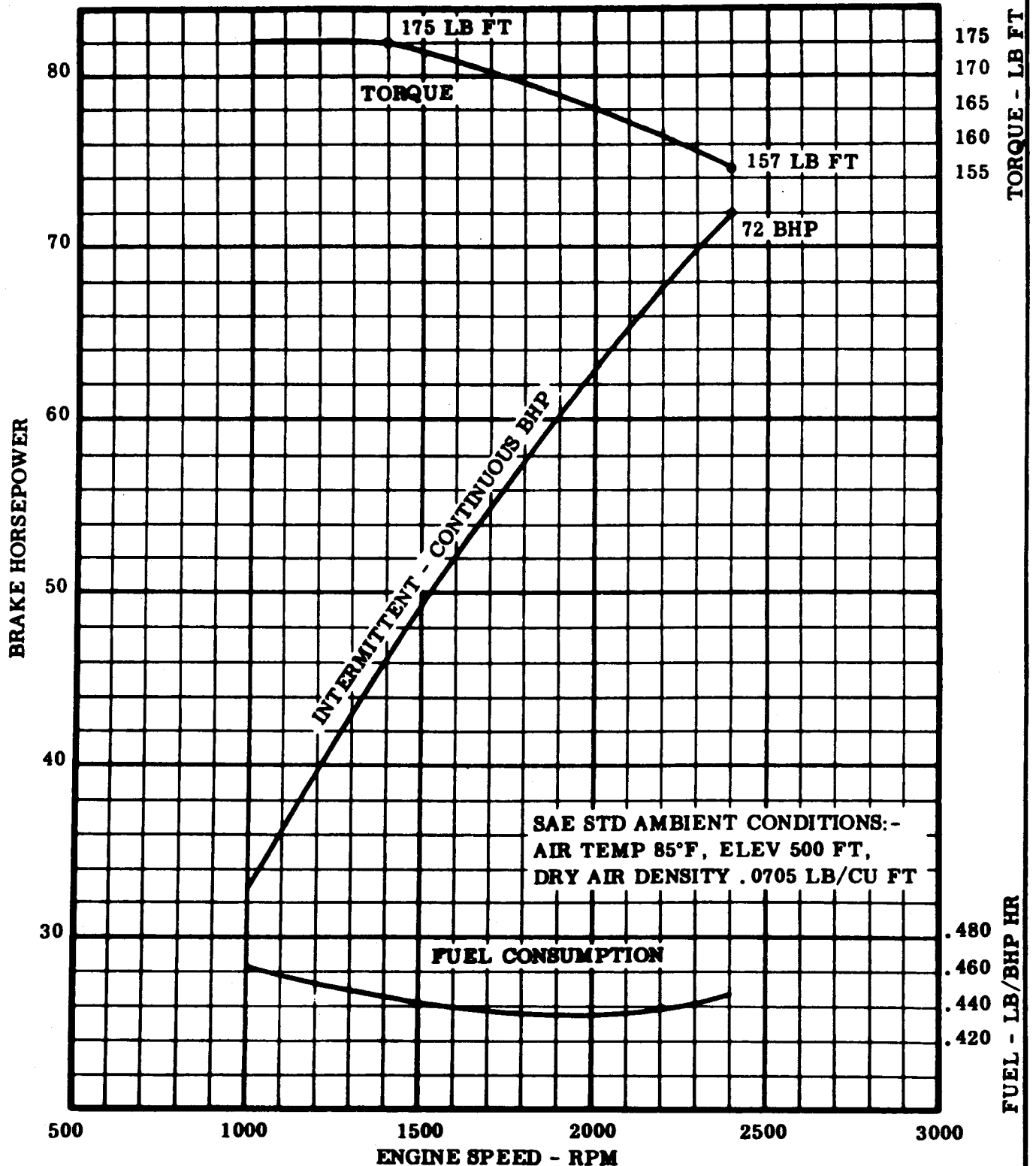




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

BASIC ENGINE
MODEL 3-53 DIESEL
4-VALVE HEAD
S40 OR S45 INJECTORS

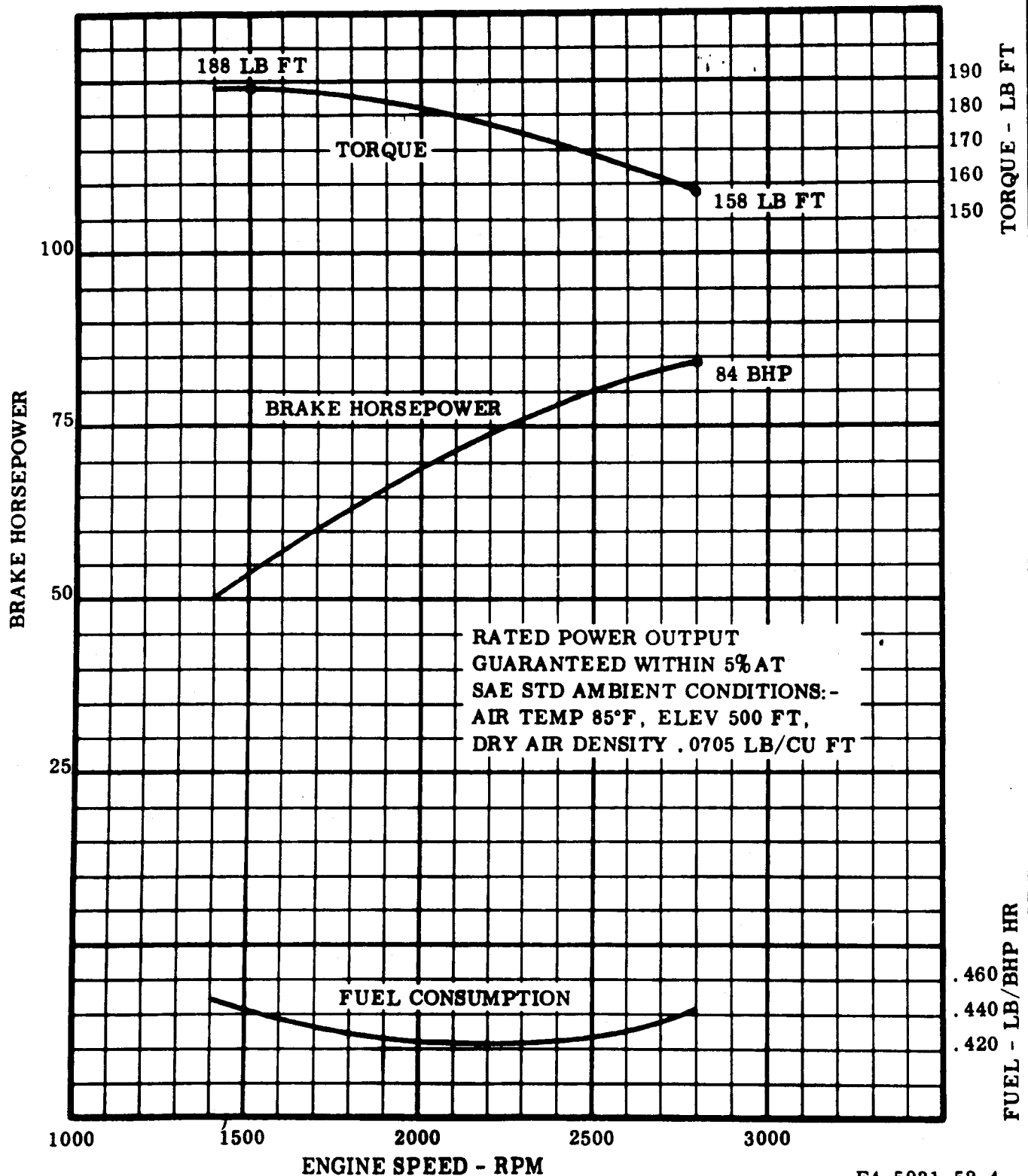




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

BASIC ENGINE
MODEL 3-53N DIESEL
(4 VALVE HEAD)
N40 INJECTORS

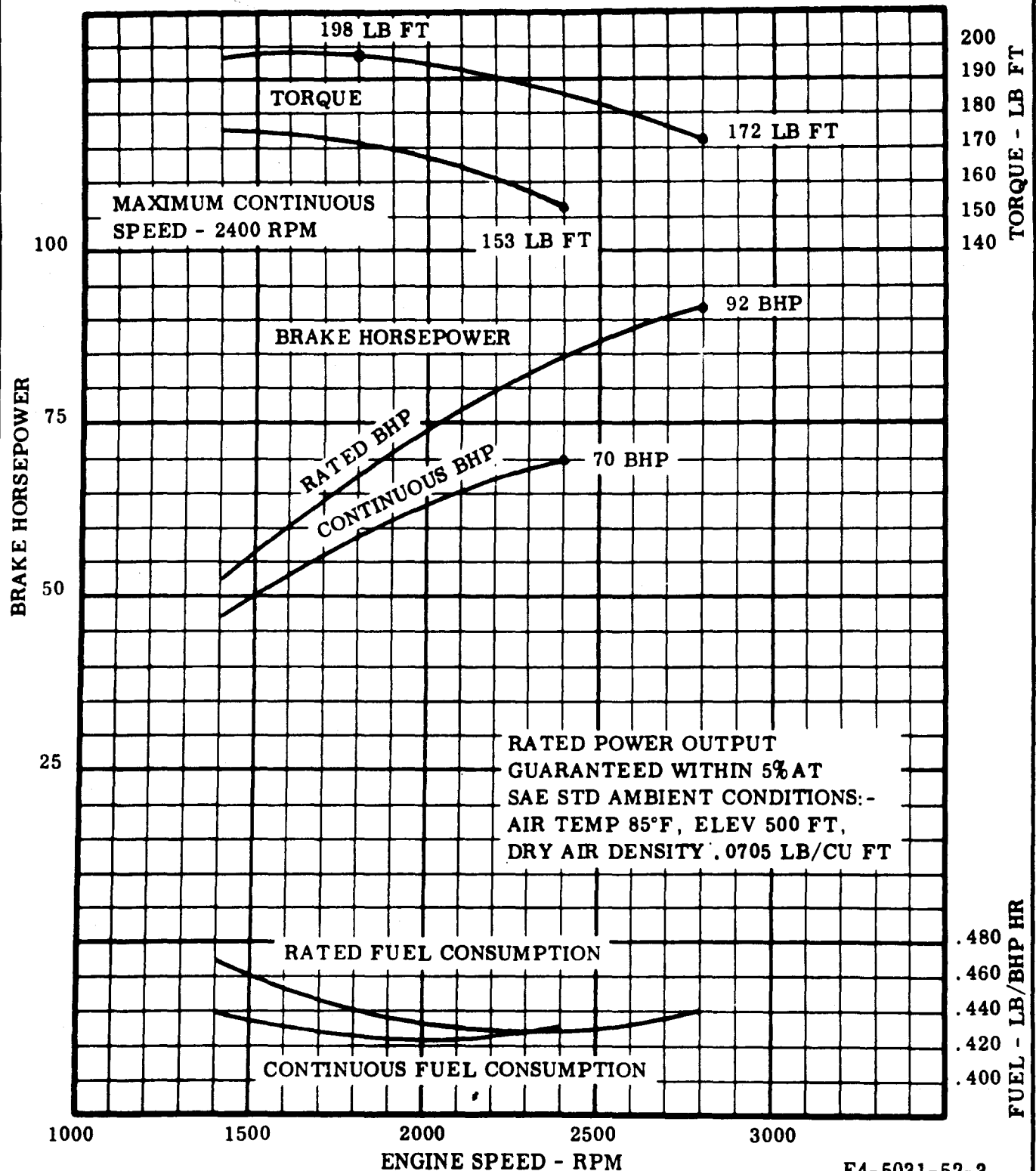




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

BASIC ENGINE
MODEL 3-53N DIESEL
(4 VALVE HEAD)
N45 INJECTORS

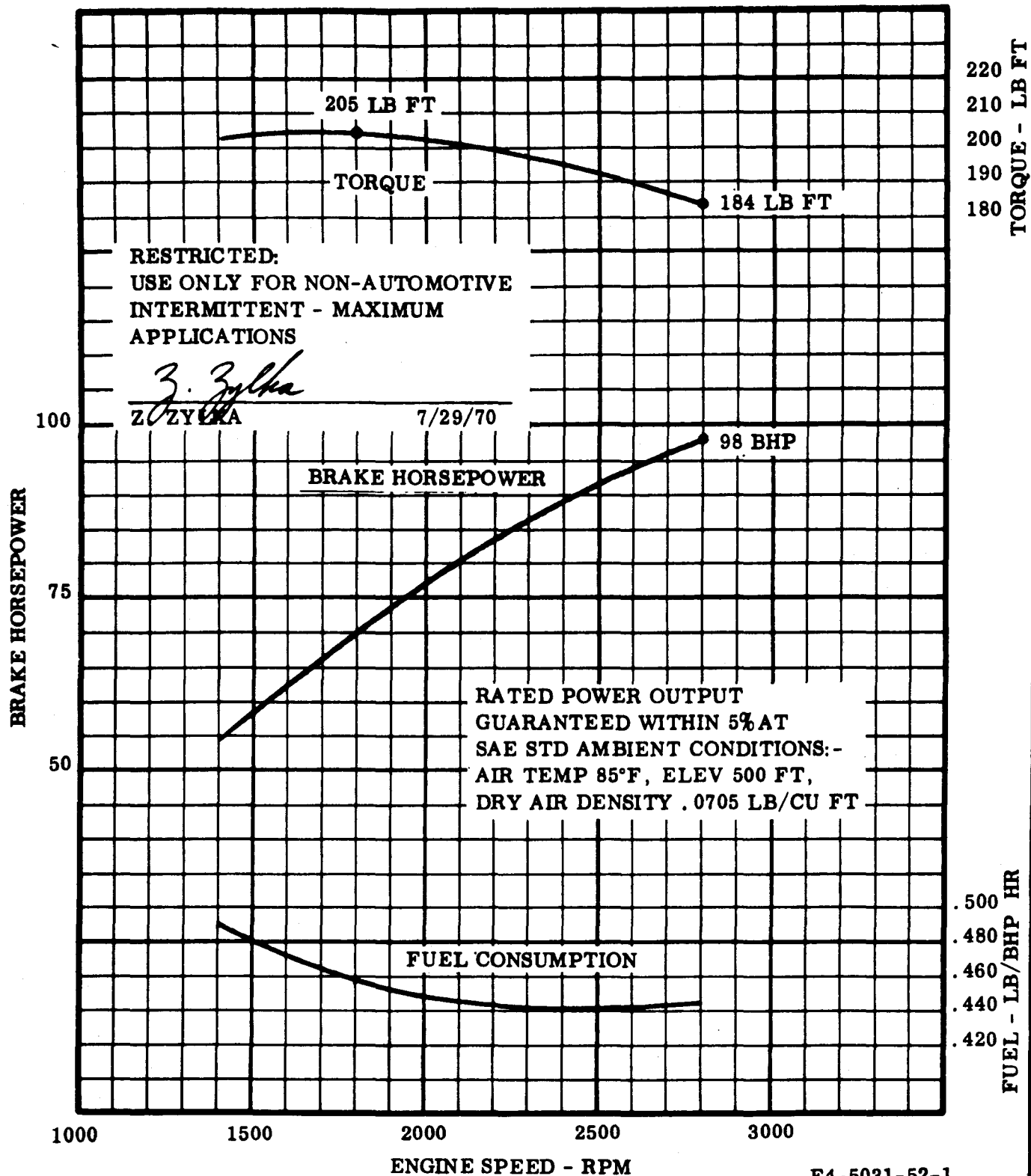




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

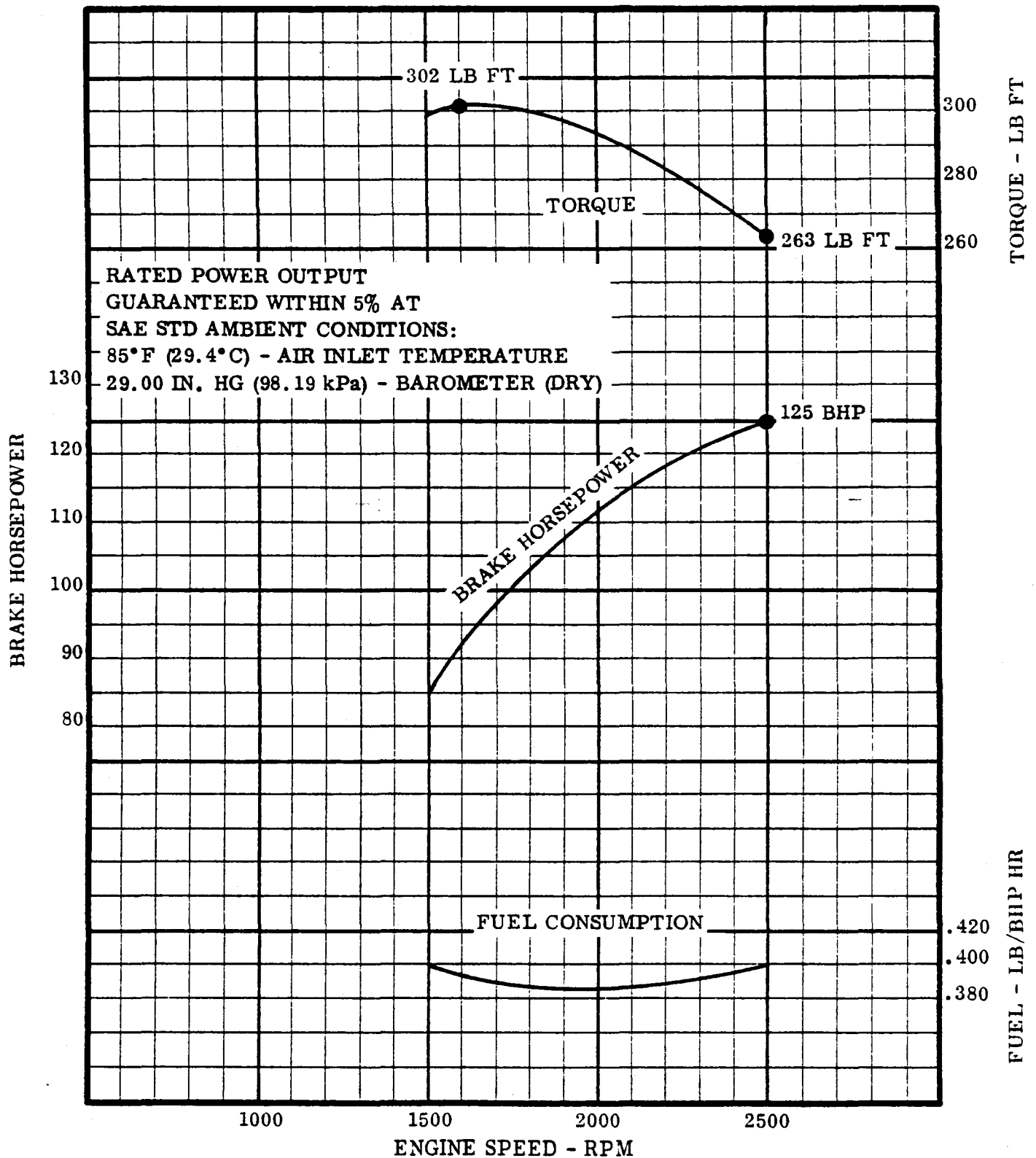
BASIC ENGINE
MODEL 3-53N DIESEL
(4 VALVE HEAD)
N50 INJECTORS





Detroit Diesel Allison
Division of General Motors Corporation

BASIC ENGINE
MODEL 3L-53T DIESEL - INDUSTRIAL
5A60 INJECTORS, 1.496 TIMING
T04B TURBOCHARGER (.81 A/R HSG.)

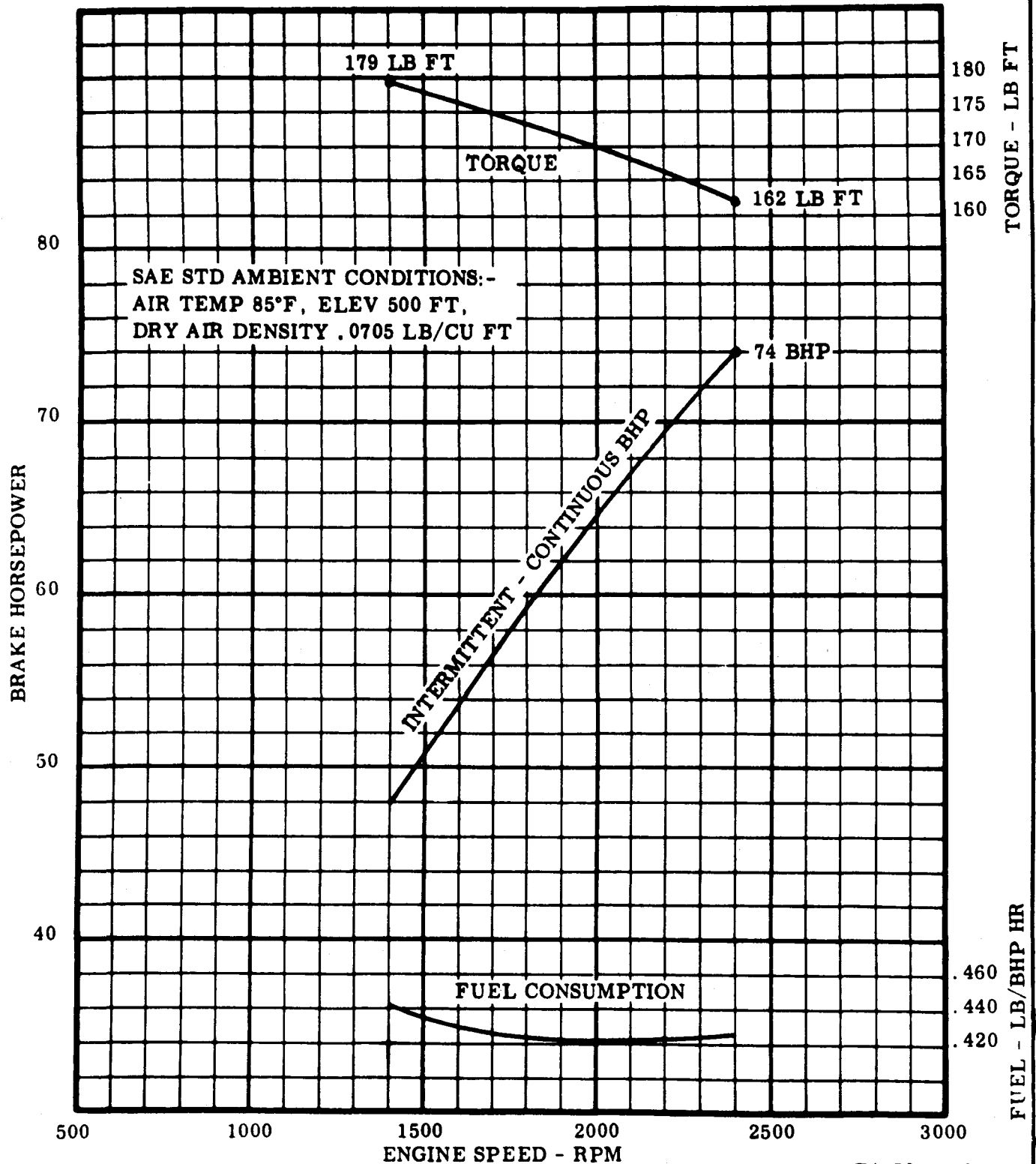




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

BASIC ENGINE
MODEL 3-53N DIESEL
4-VALVE HEAD
N40 OR N45 INJECTORS





DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

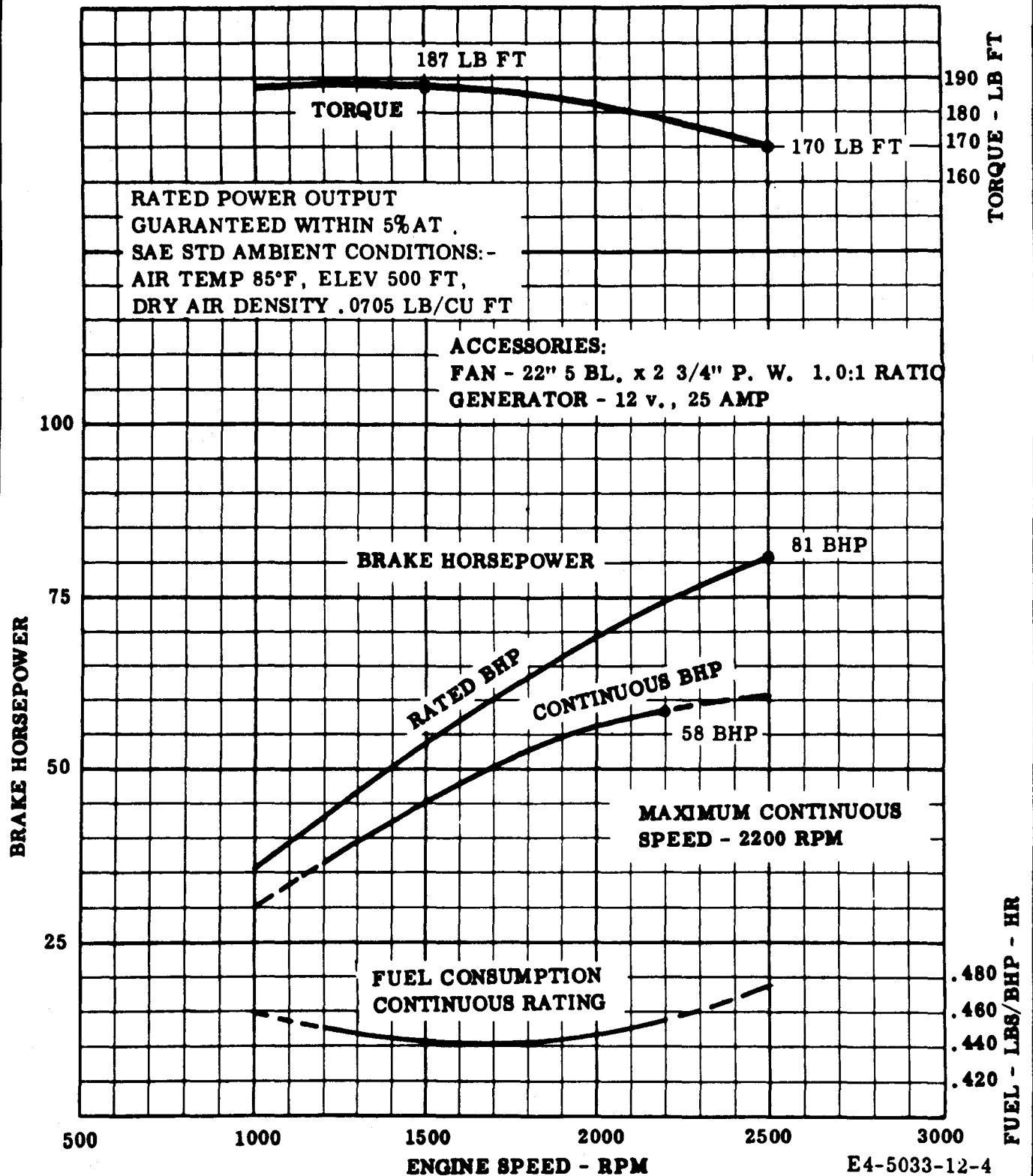
SERIES 53

MODEL 5033-7201

(3-53 4-VALVE HEAD)

PERFORMANCE WITH STANDARD EQUIPMENT

S45 INJECTORS





DETROIT DIESEL ENGINE DIVISION

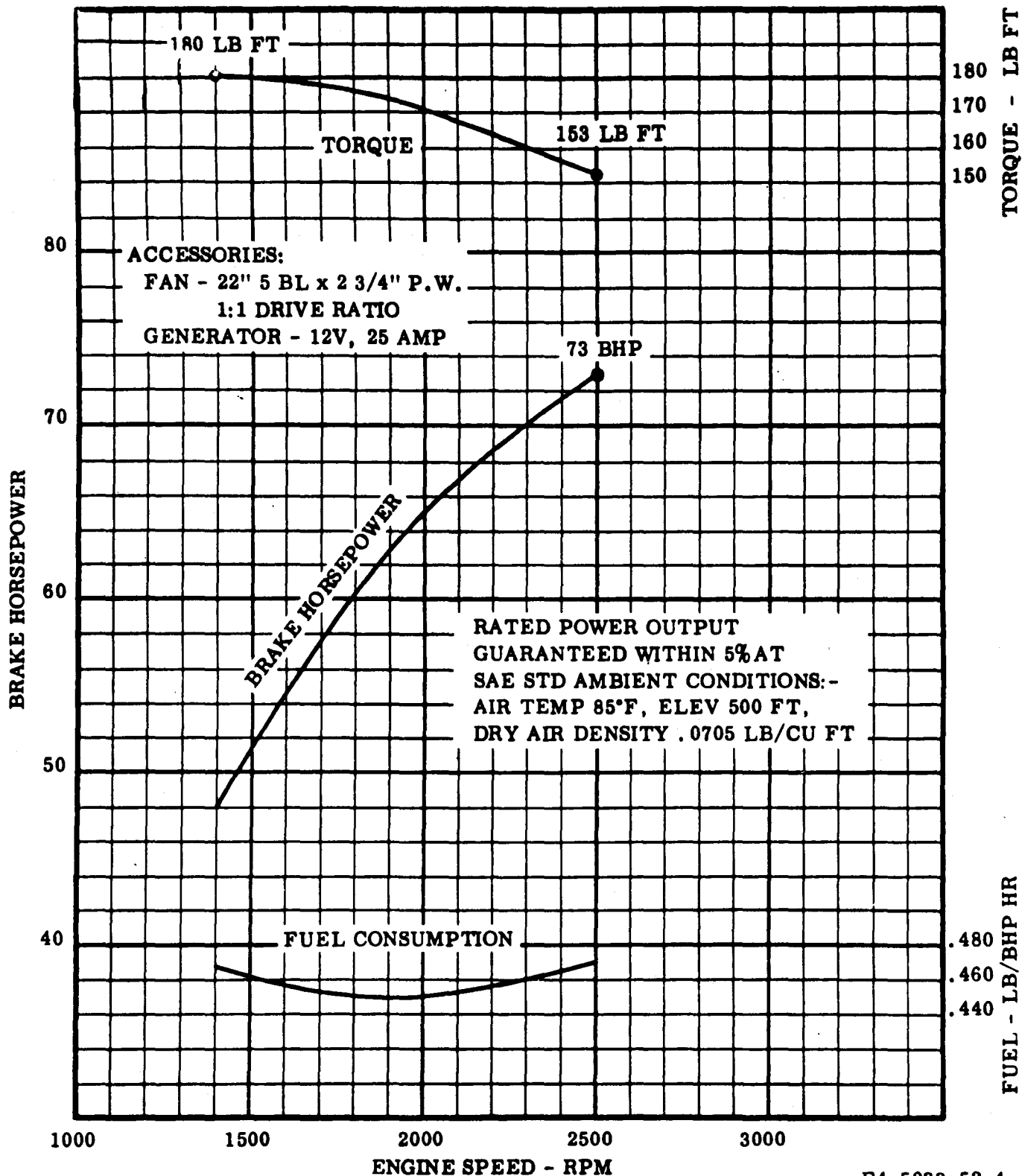
GENERAL MOTORS CORPORATION

SERIES 53N INDUSTRIAL

3-53N (4V) ENGINE

PERFORMANCE WITH STANDARD EQUIPMENT

N40 INJECTORS





DETROIT DIESEL ENGINE DIVISION

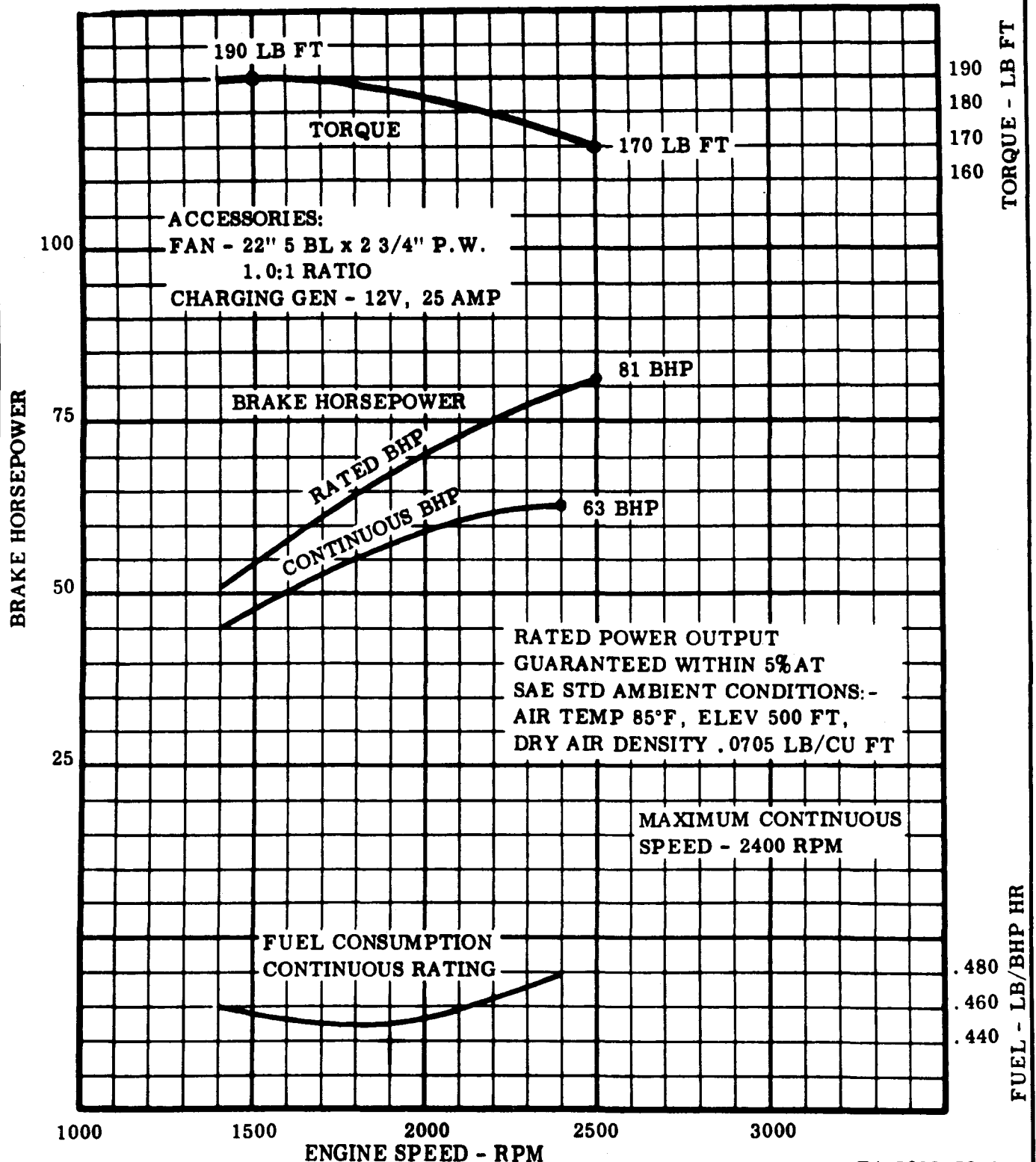
GENERAL MOTORS CORPORATION

SERIES 53N INDUSTRIAL

3-53N (4V) ENGINE

PERFORMANCE WITH STANDARD EQUIPMENT

N45 INJECTORS

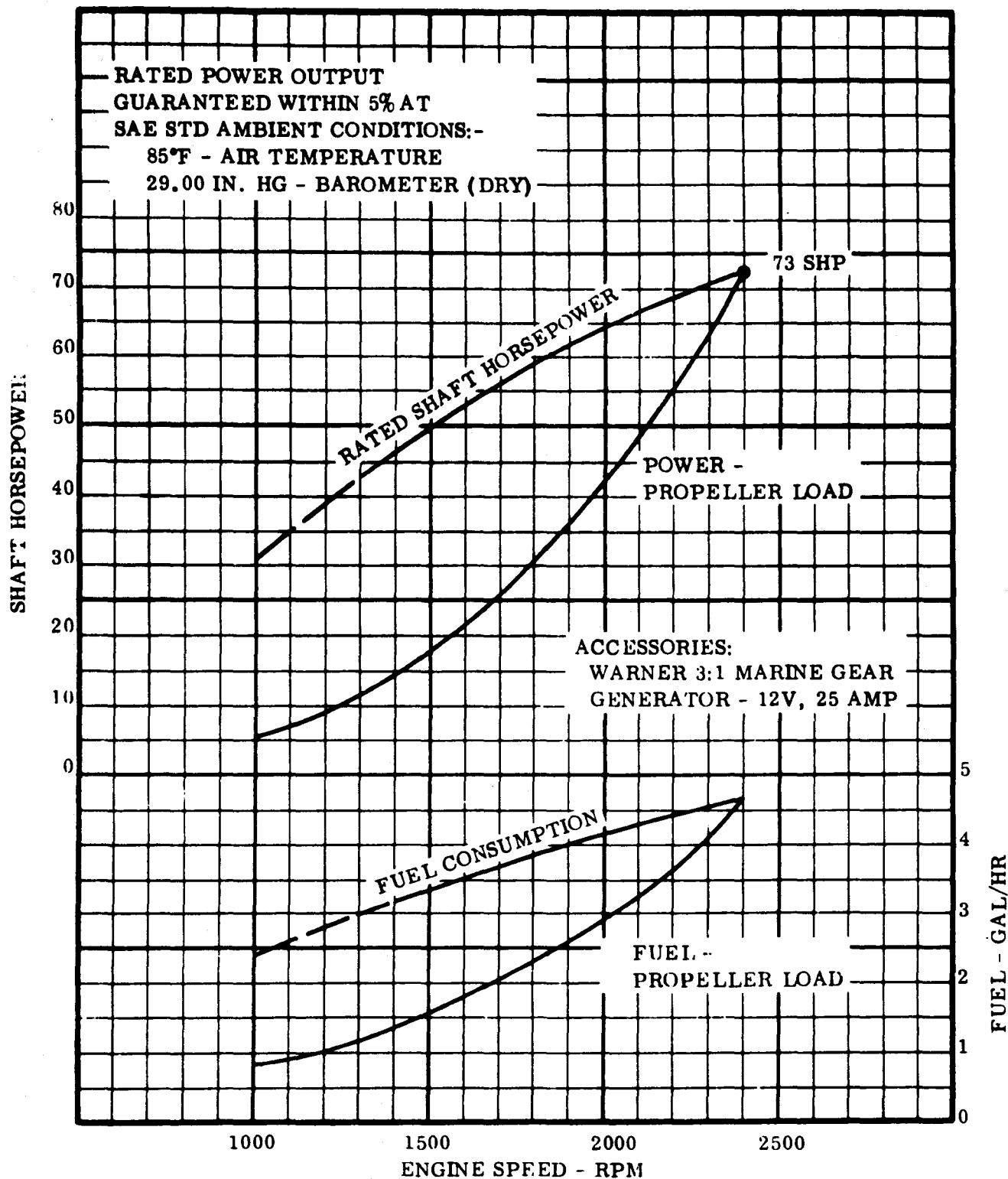




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

SERIES 53 MARINE
3-53N WORK BOAT
N40 INJECTORS

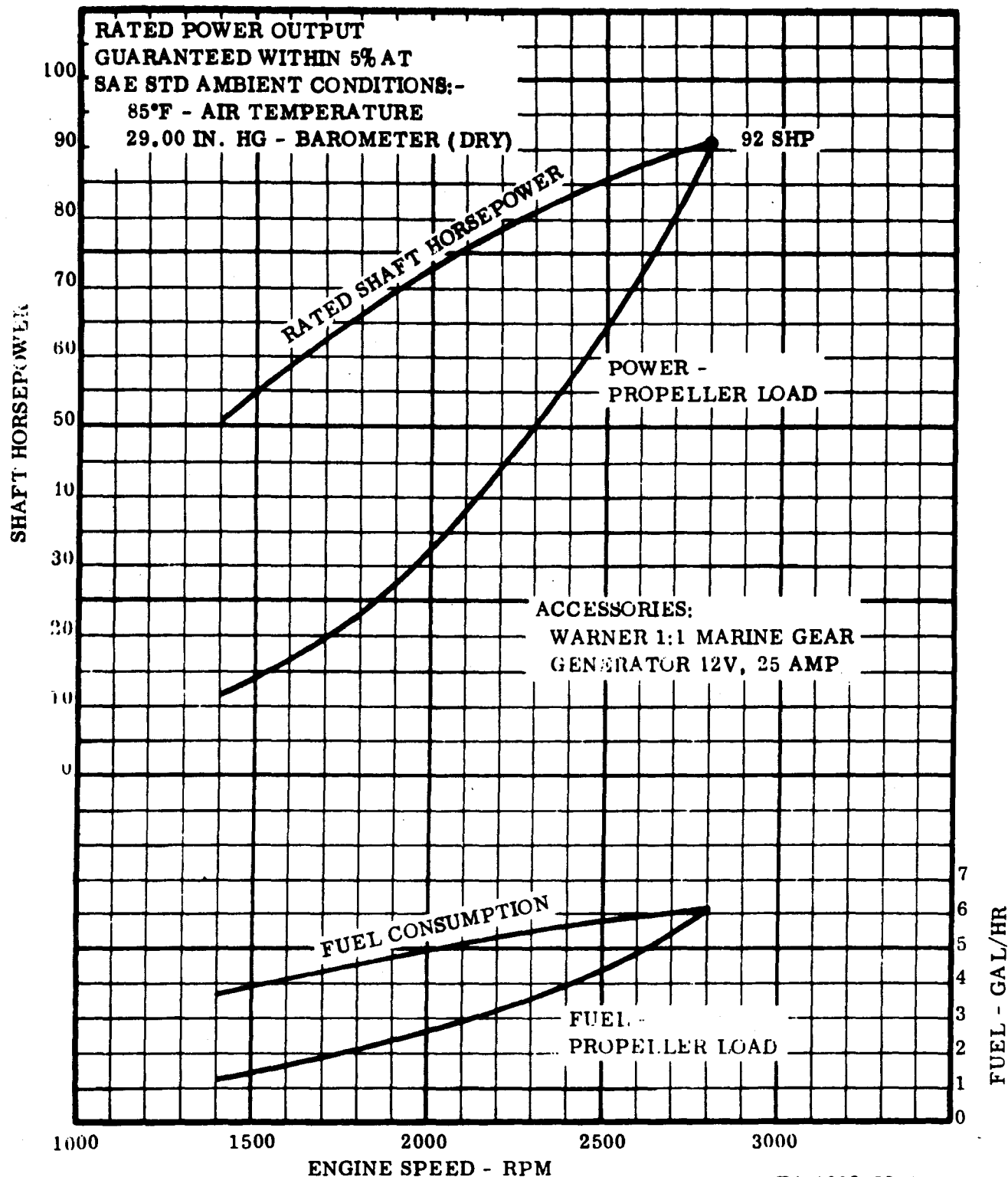




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

SERIES 53 MARINE
3-53N PLEASURE CRAFT
N50 INJECTORS



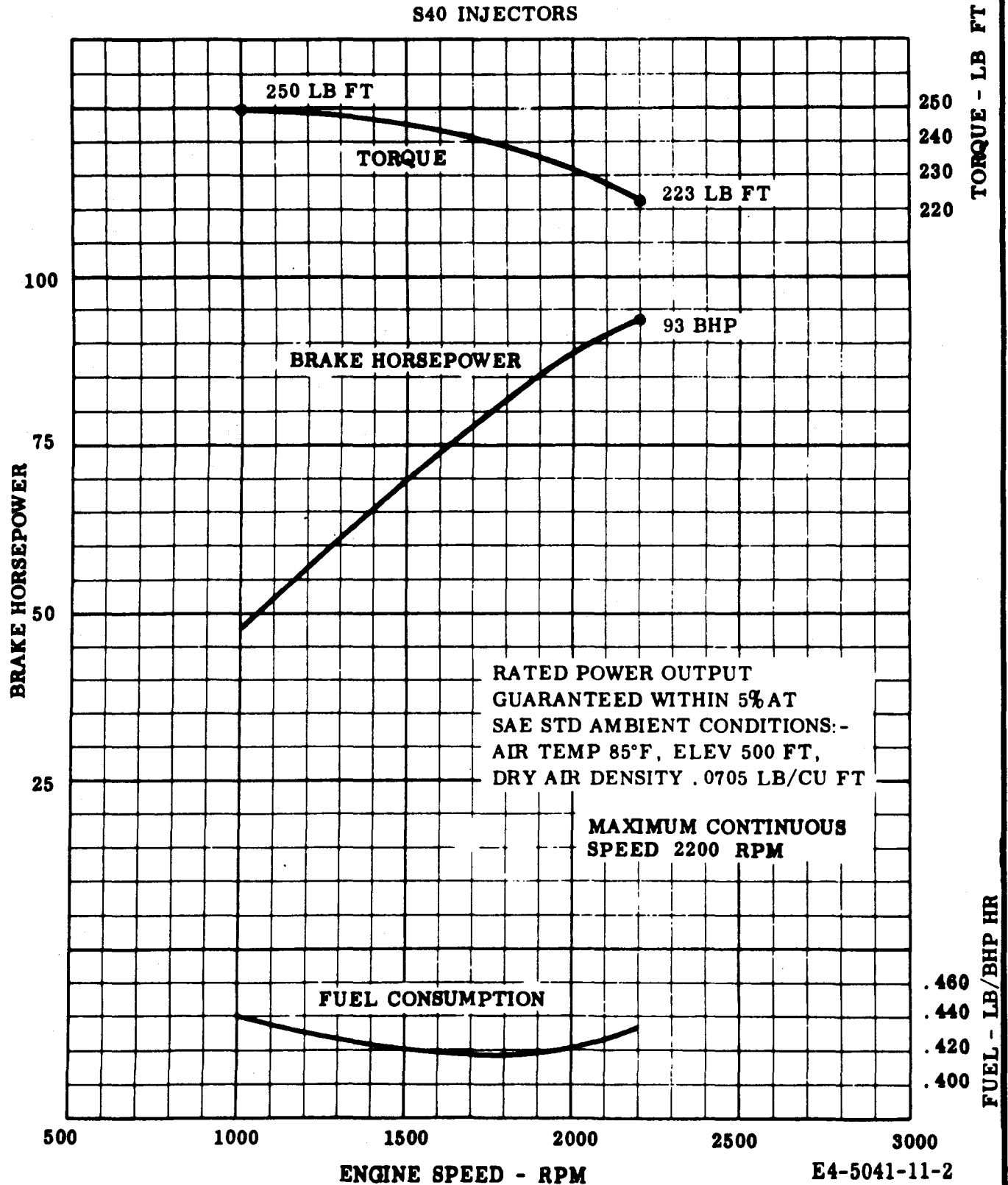
453 (2)



DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

BASIC ENGINE
MODEL 4-53 DIESEL
2-VALVE HEAD
S40 INJECTORS

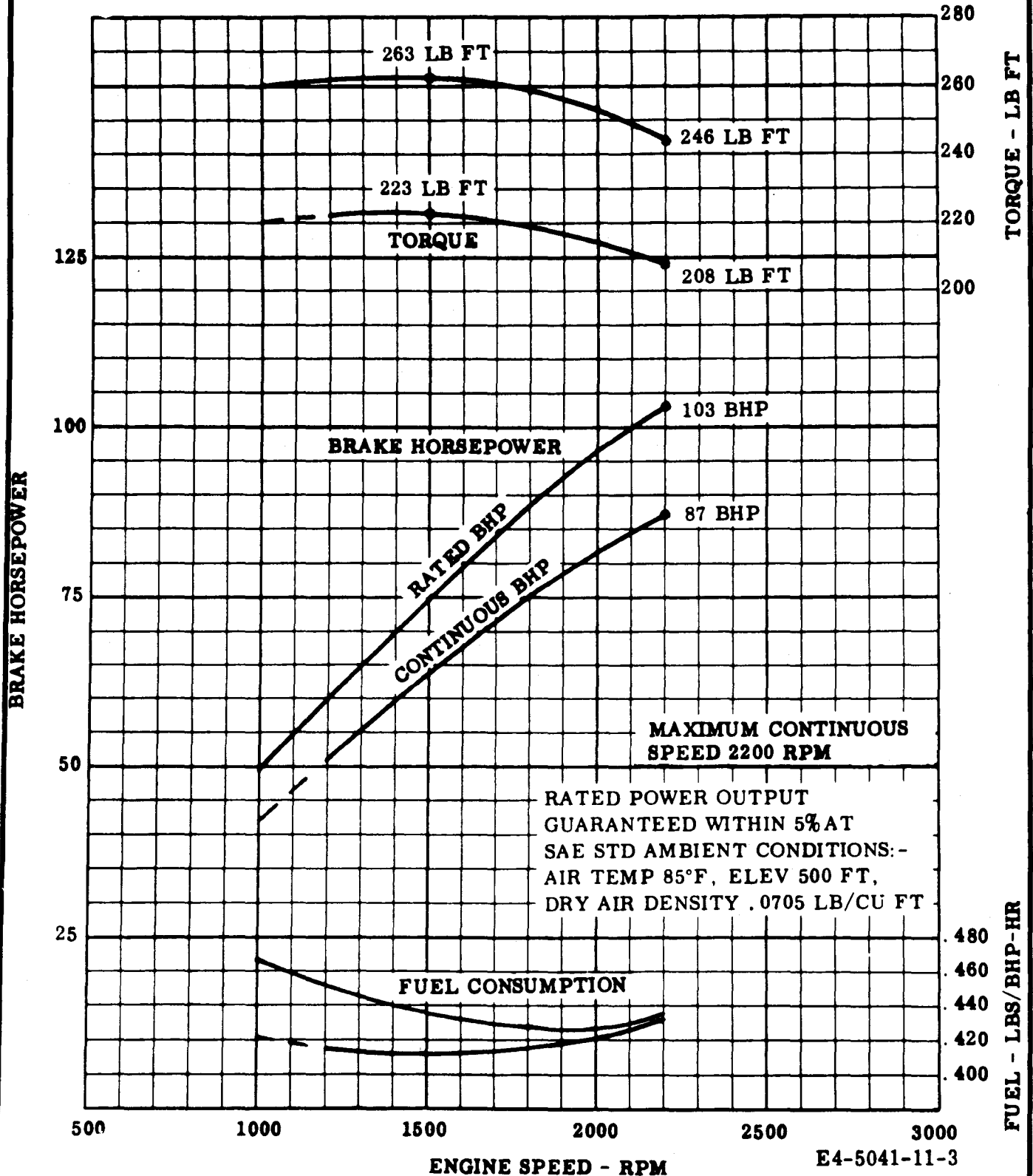




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

BASIC ENGINE
MODEL 4-53 DIESEL
2-VALVE HEAD
S45 INJECTORS

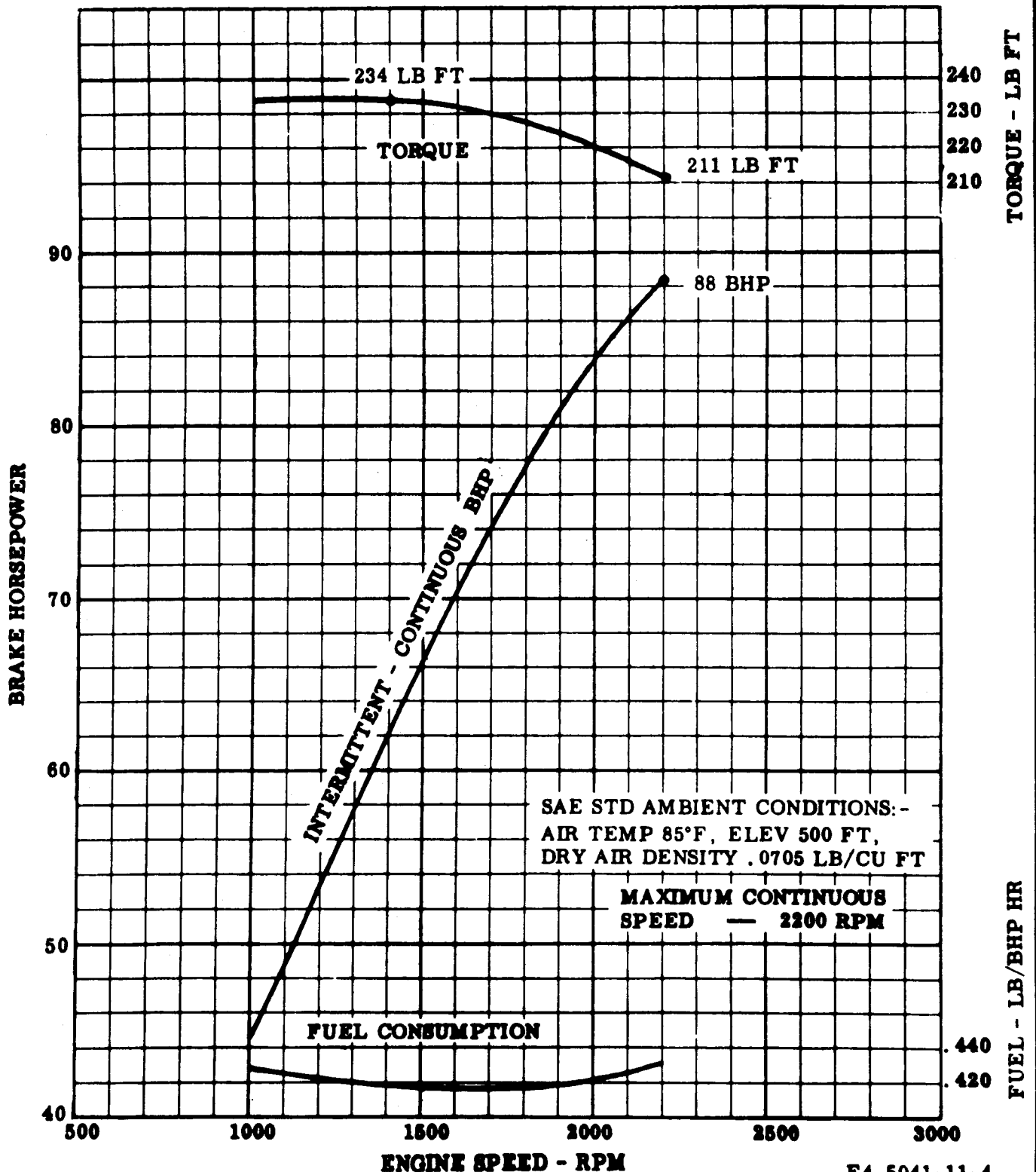




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

BASIC ENGINE
MODEL 4-53 DIESEL
2-VALVE HEAD
S40 OR S46 INJECTORS

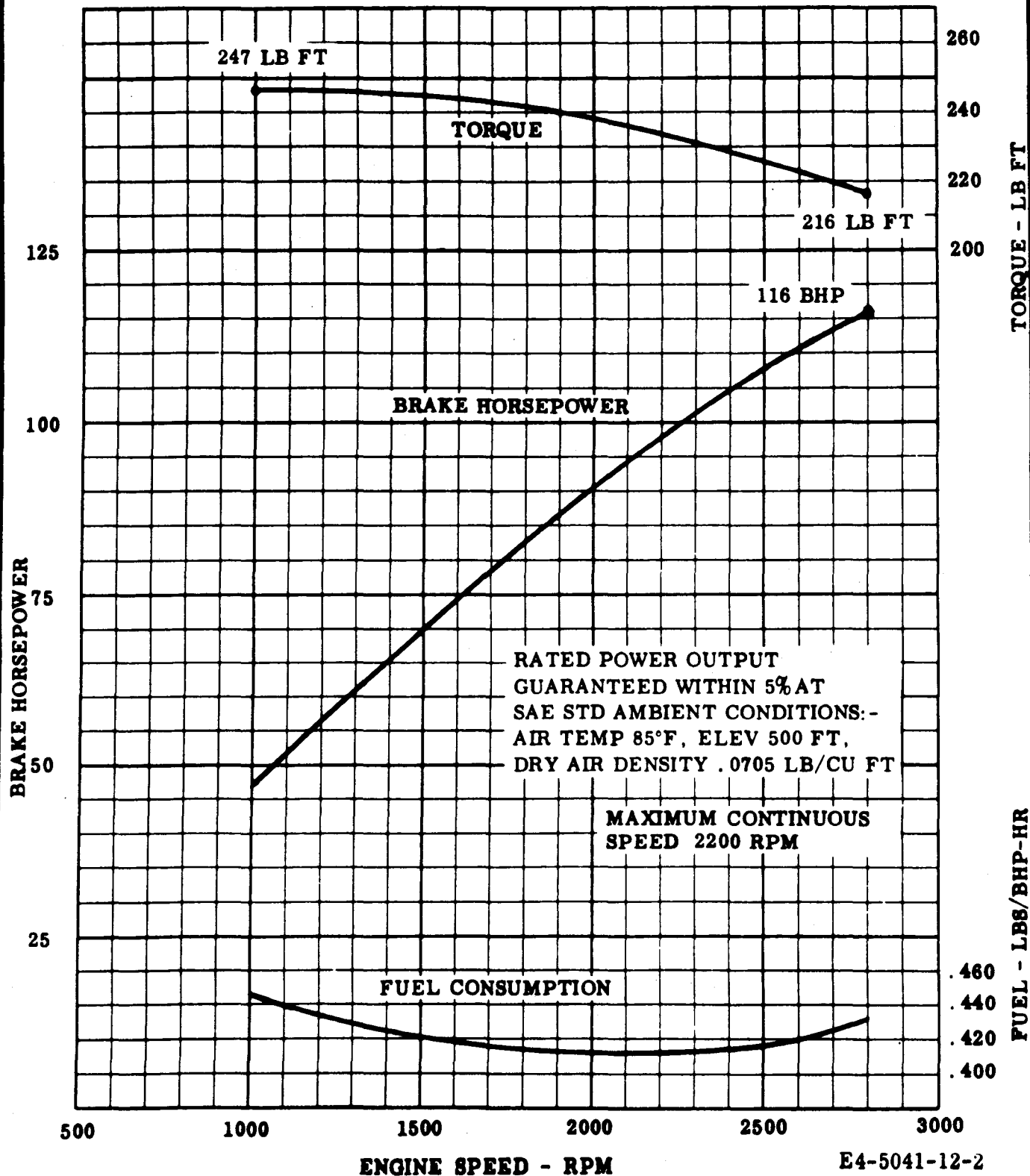




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

BASIC ENGINE
MODEL 4-53 DIESEL
4-VALVE HEAD
S40 INJECTORS

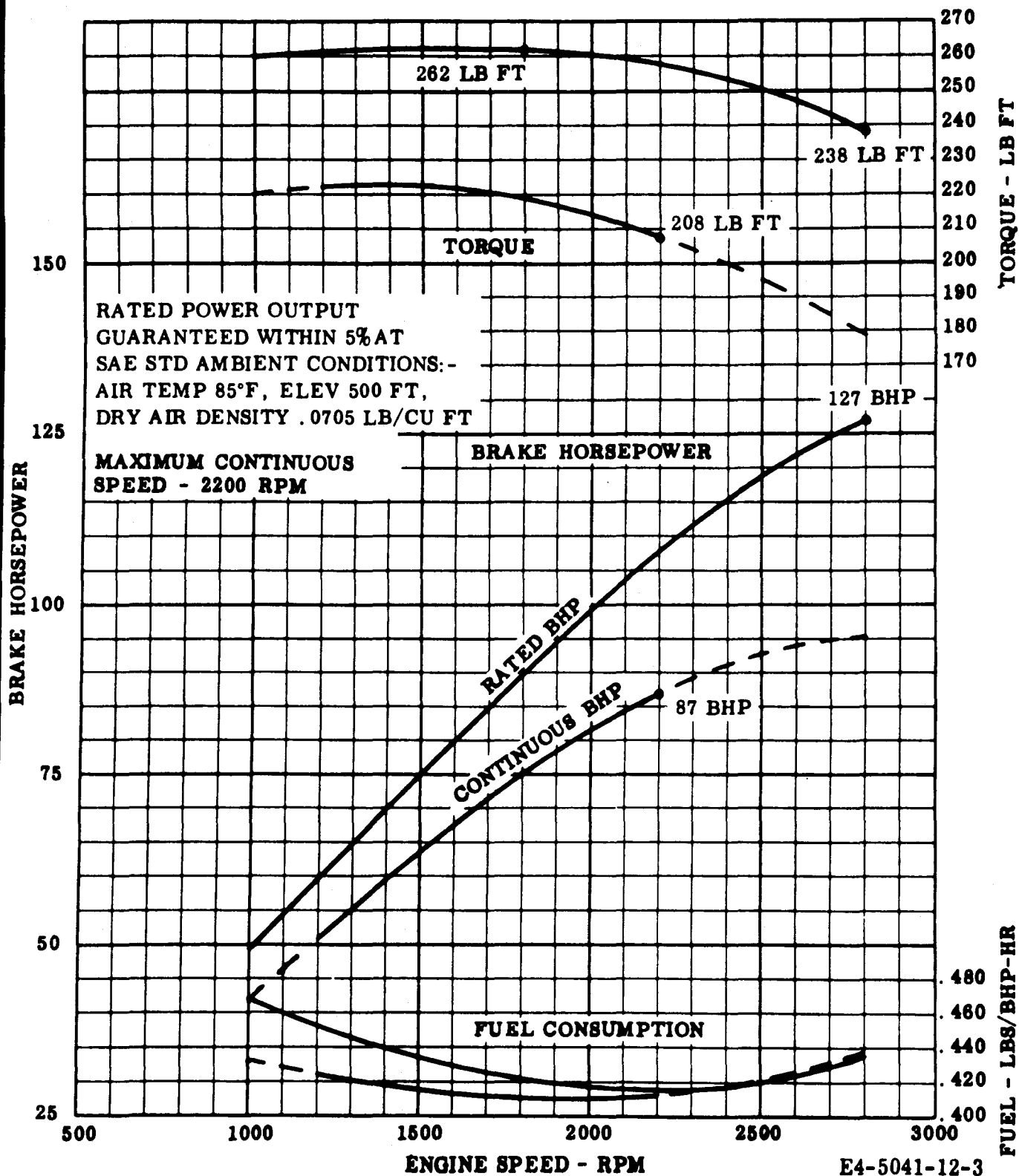




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

BASIC ENGINE
MODEL 4-53 DIESEL
(4-VALVE HEAD)
S45 INJECTORS

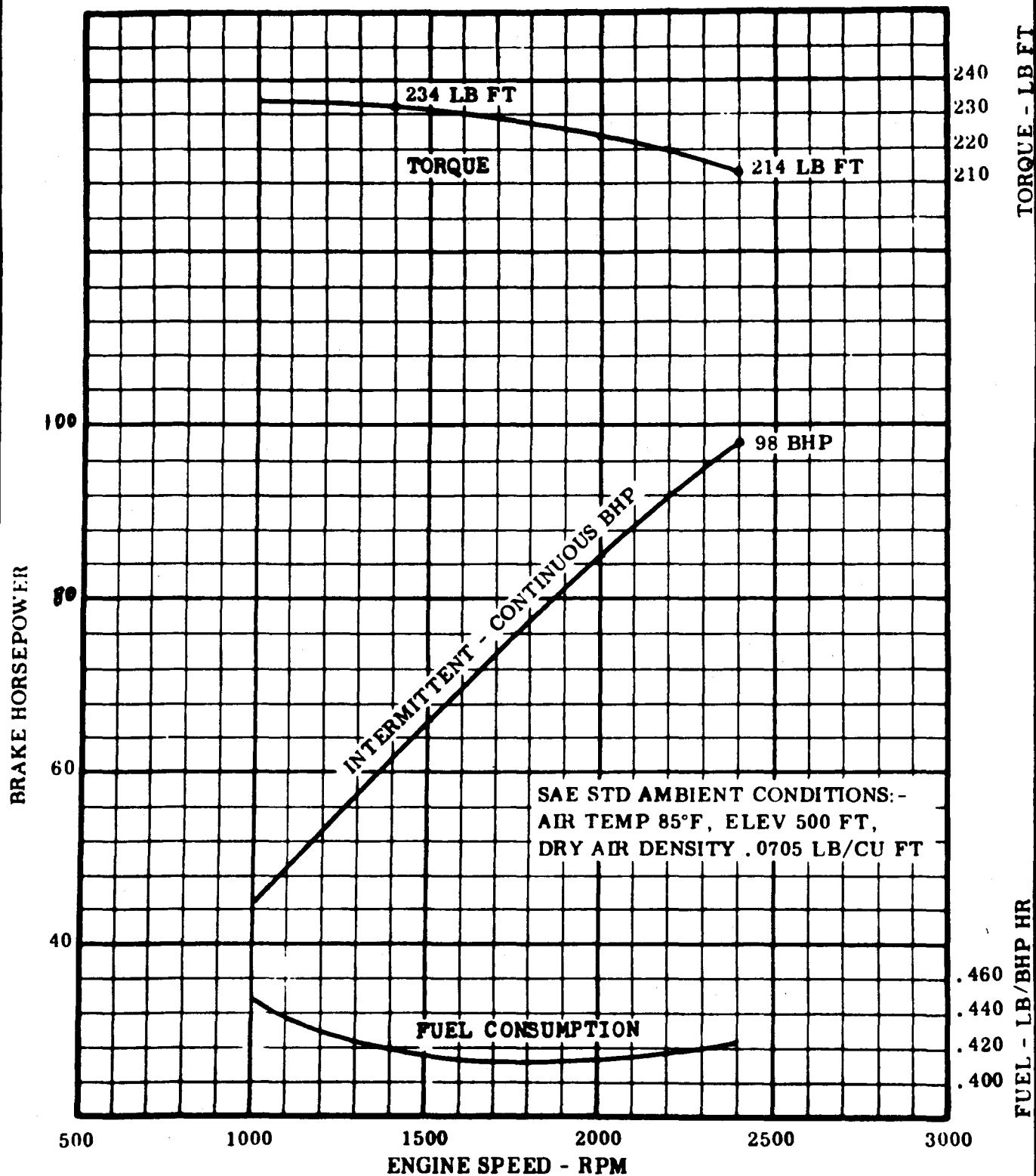




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

BASIC ENGINE
MODEL 4-53 DIESEL
4-VALVE HEAD
S40 OR S45 INJECTORS

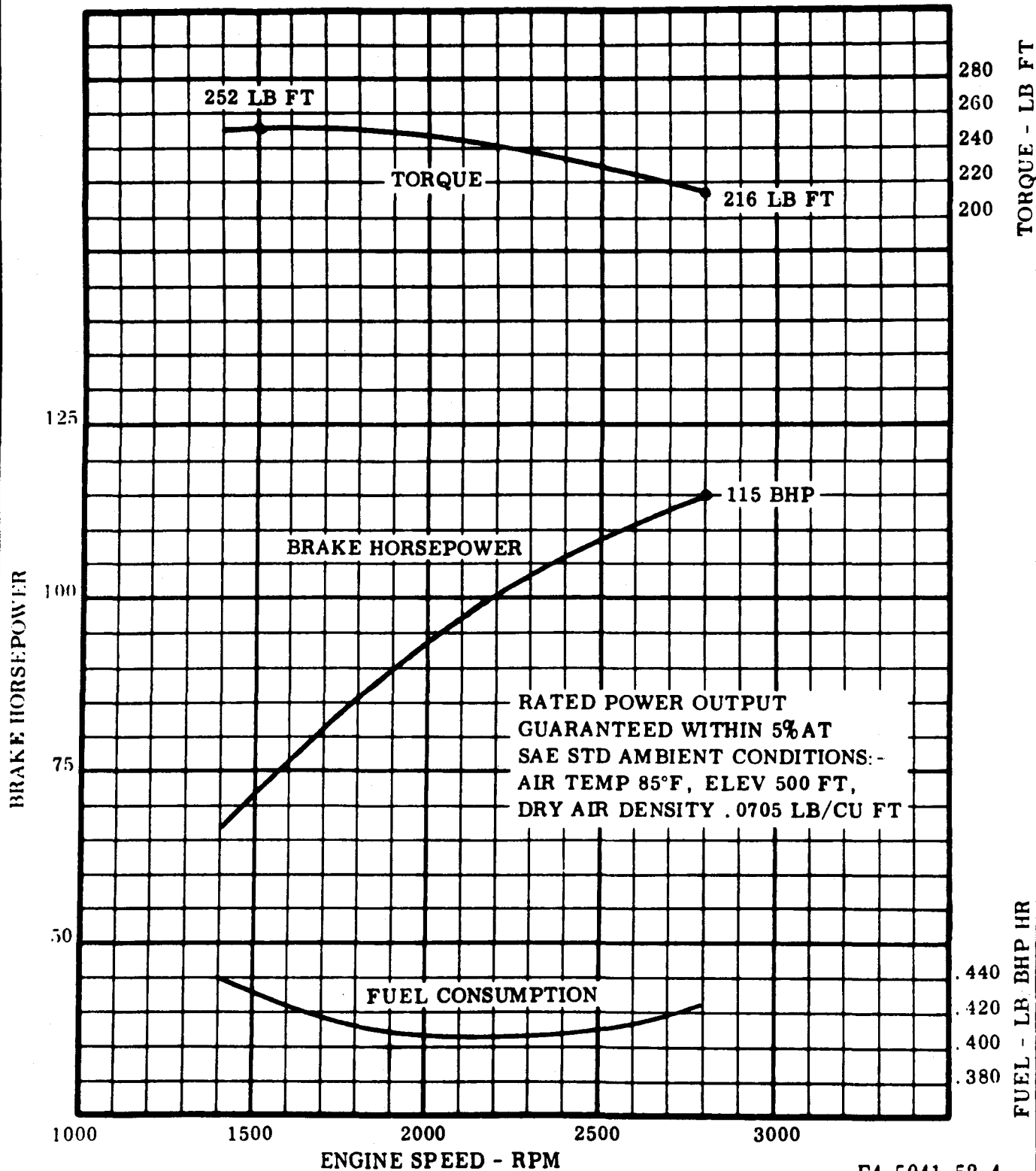




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

BASIC ENGINE
MODEL 4-53N DIESEL
(4 VALVE HEAD)
N40 INJECTORS

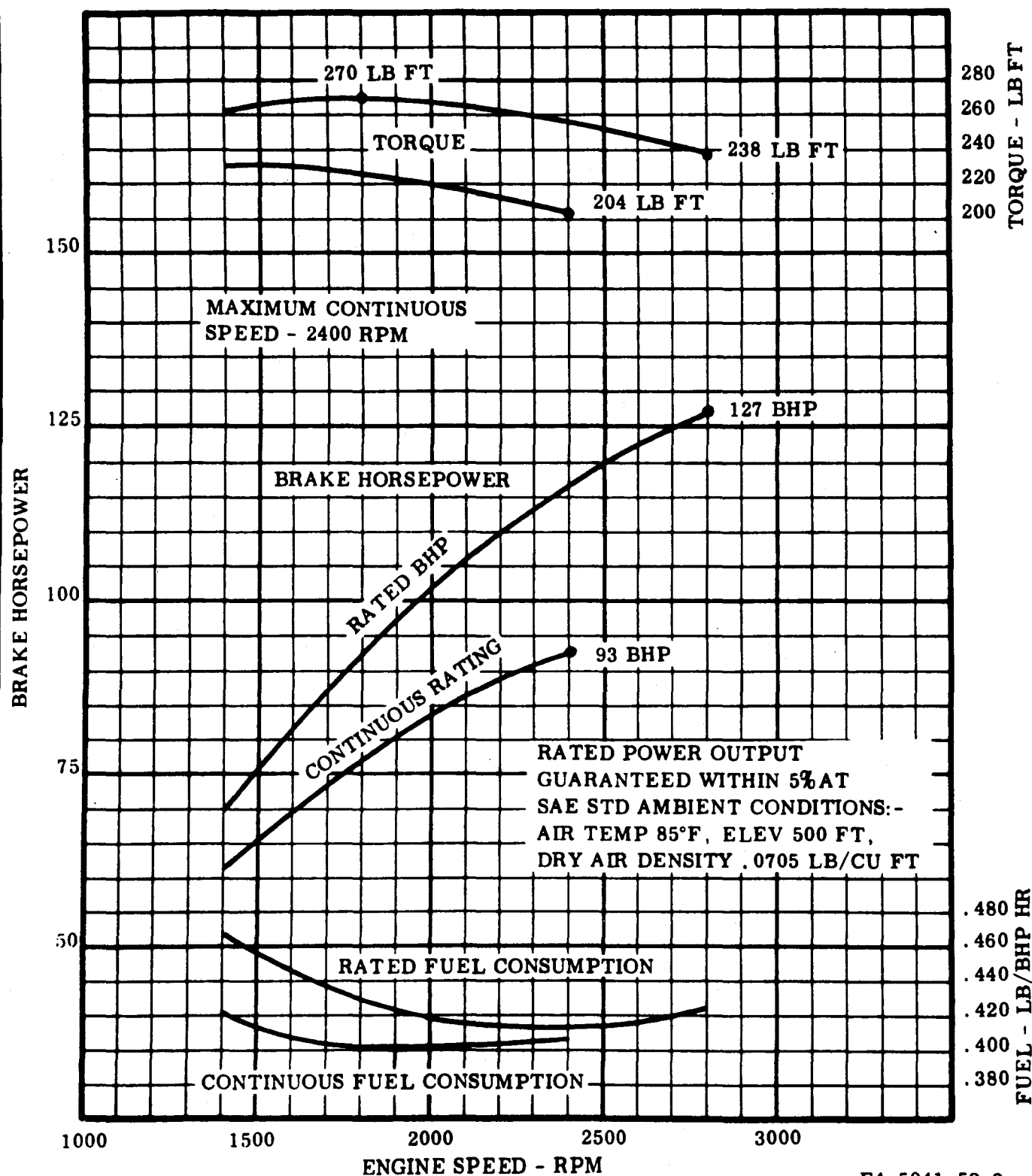




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

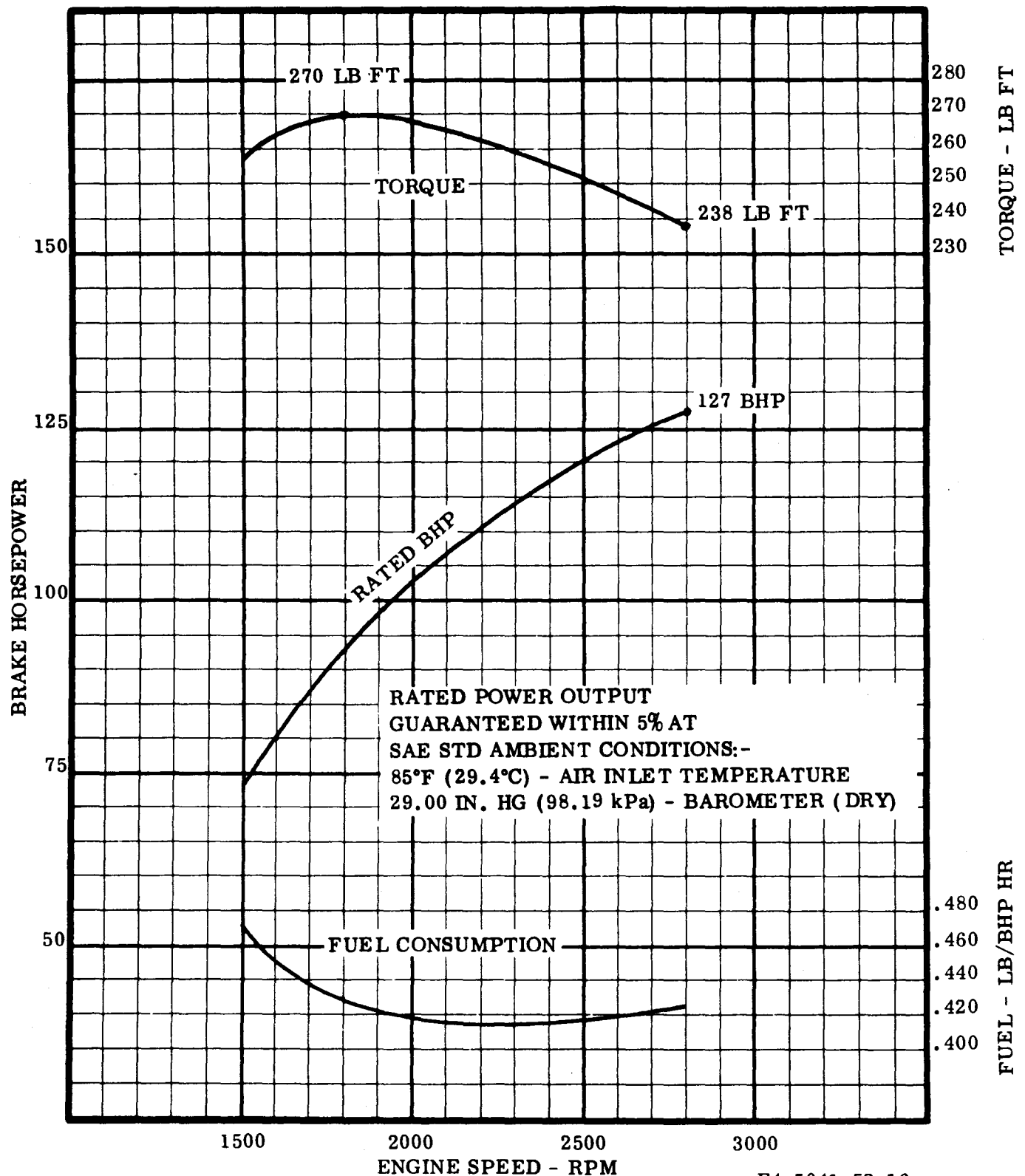
BASIC ENGINE
MODEL 4-53N DIESEL
(4 VALVE HEAD)
N45 INJECTORS





Detroit Diesel Allison
Division of General Motors Corporation

BASIC ENGINE
MODEL 4-53N DIESEL - AUTOMOTIVE
ADVANCED CAMSHAFT TIMING
C45 INJECTORS, 1.470 TIMING

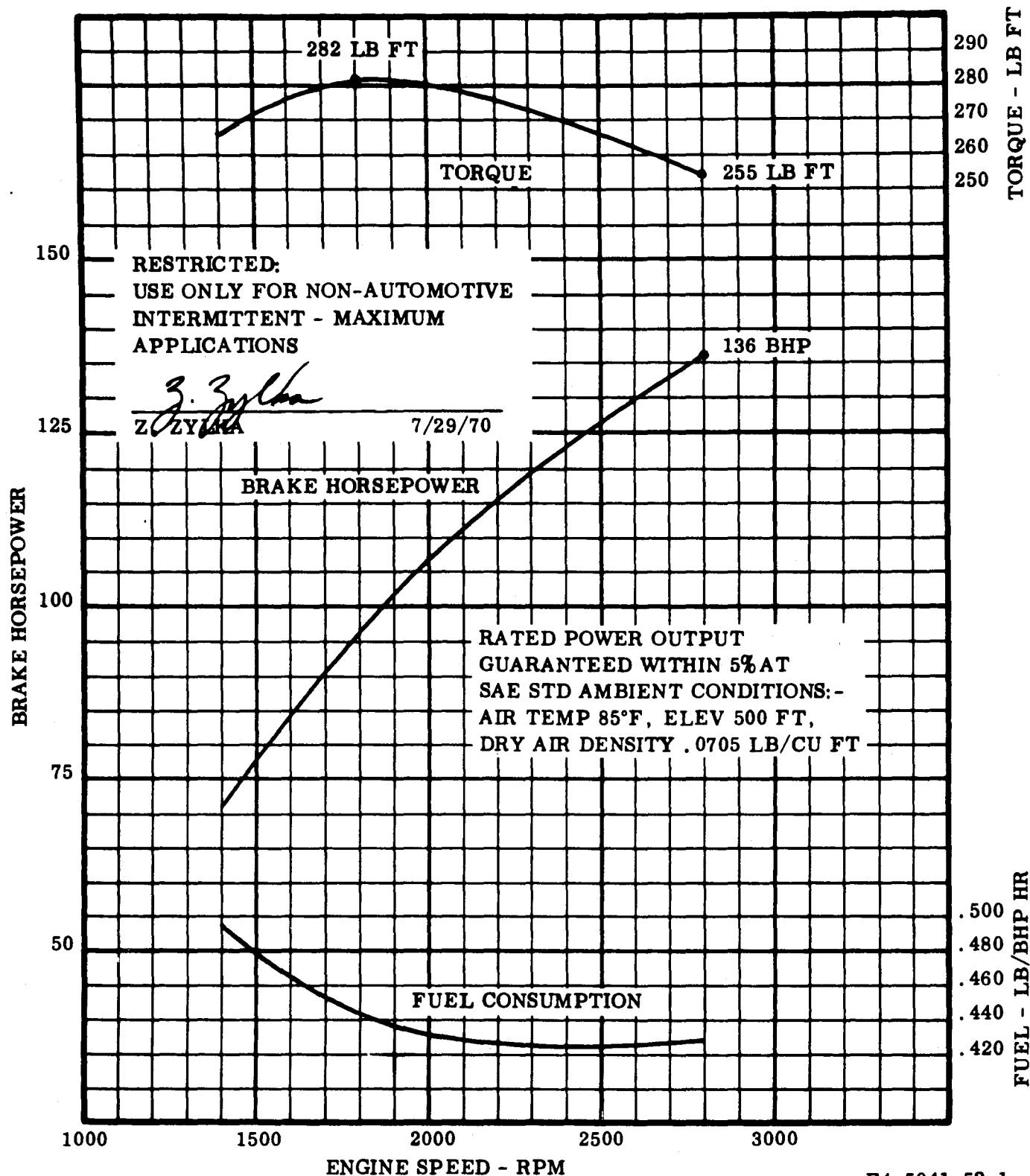




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

BASIC ENGINE
MODEL 4-53N DIESEL
(4 VALVE HEAD)
N50 INJECTORS





DETROIT DIESEL ENGINE DIVISION

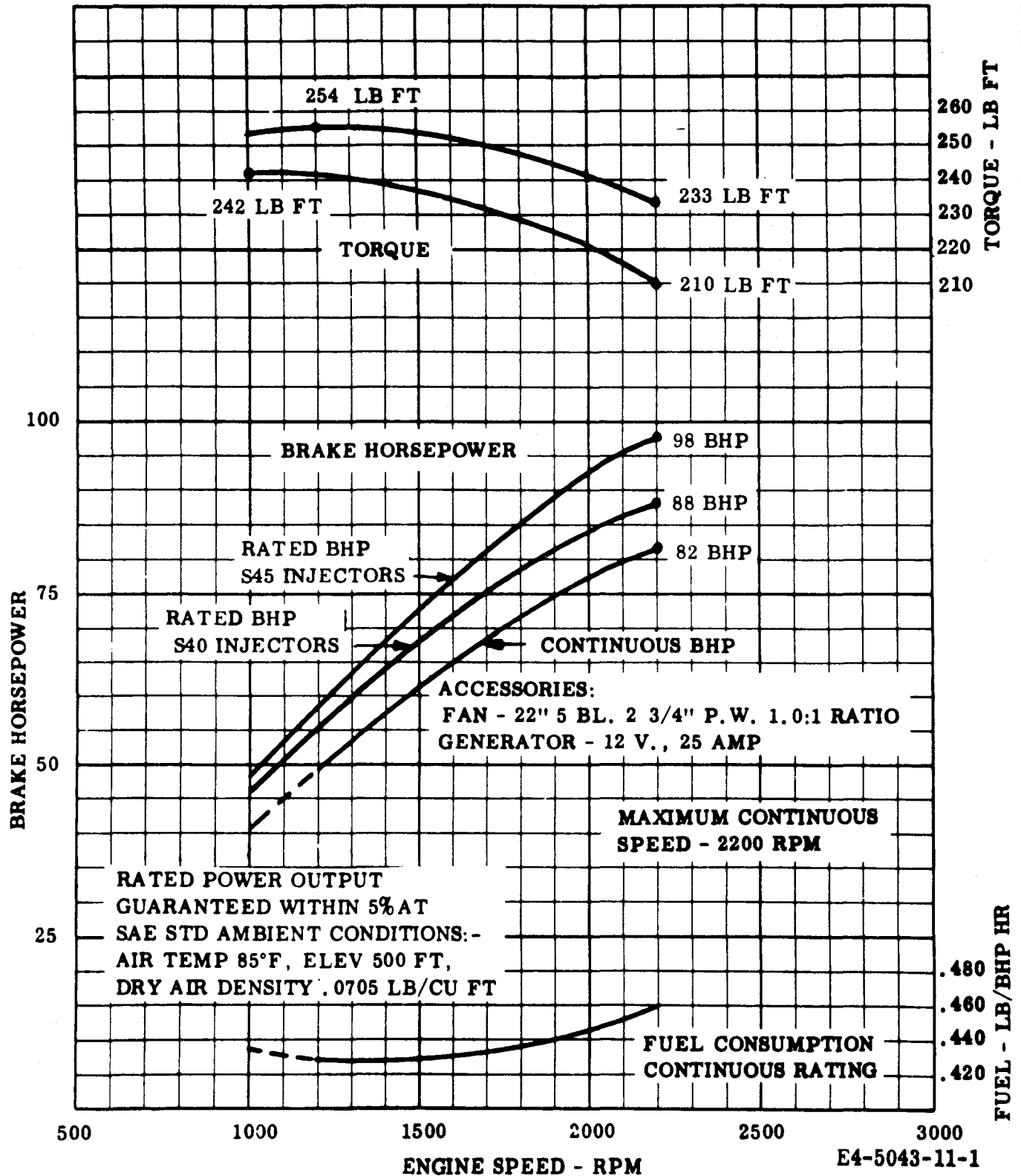
GENERAL MOTORS CORPORATION

SERIES 53

MODEL 5043 - 7101

(4-53 2 VALVE HEAD)

PERFORMANCE WITH STANDARD EQUIPMENT





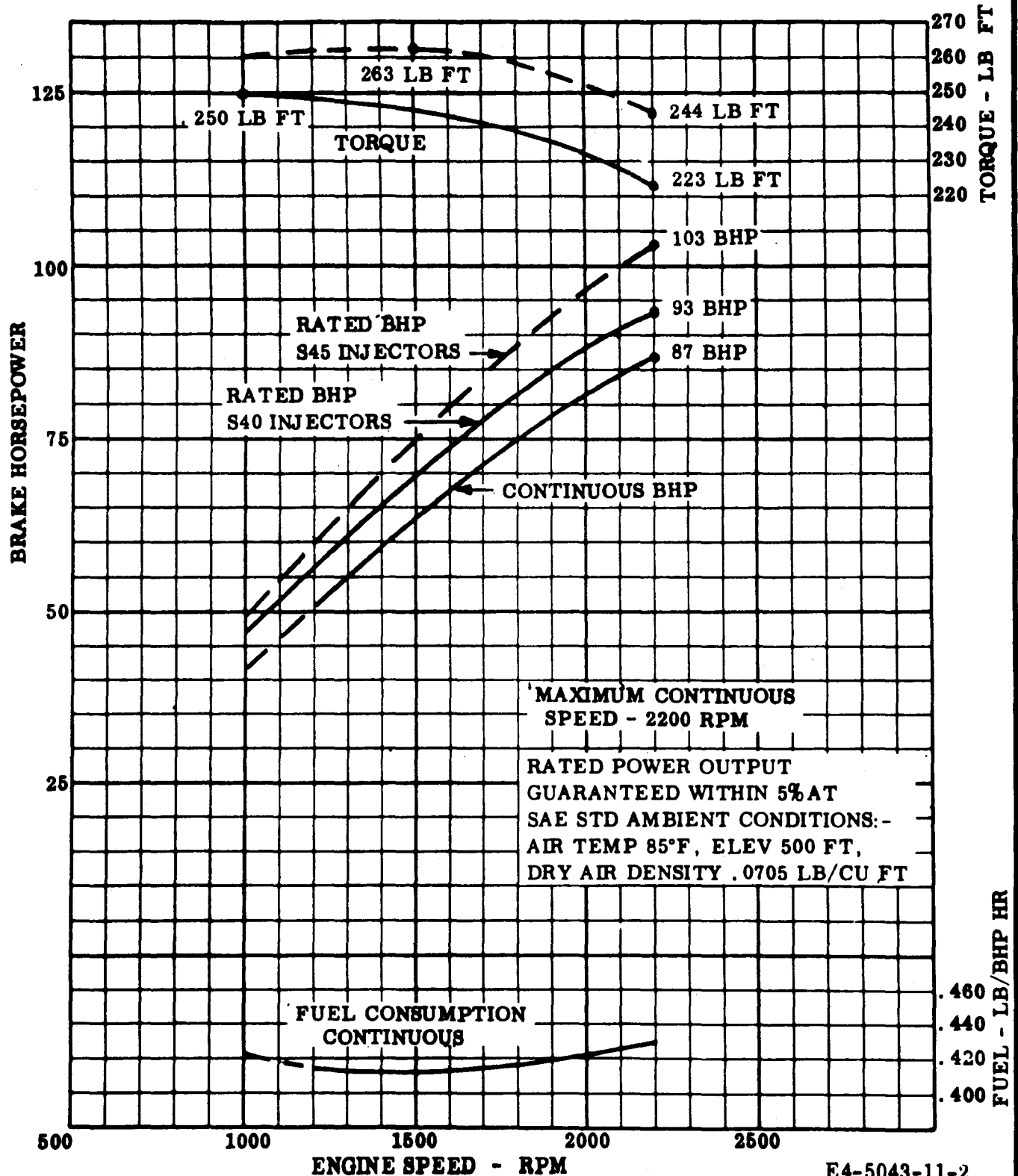
DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

SERIES 53

MODEL 5044 - 8100

PERFORMANCE WITH STANDARD EQUIPMENT

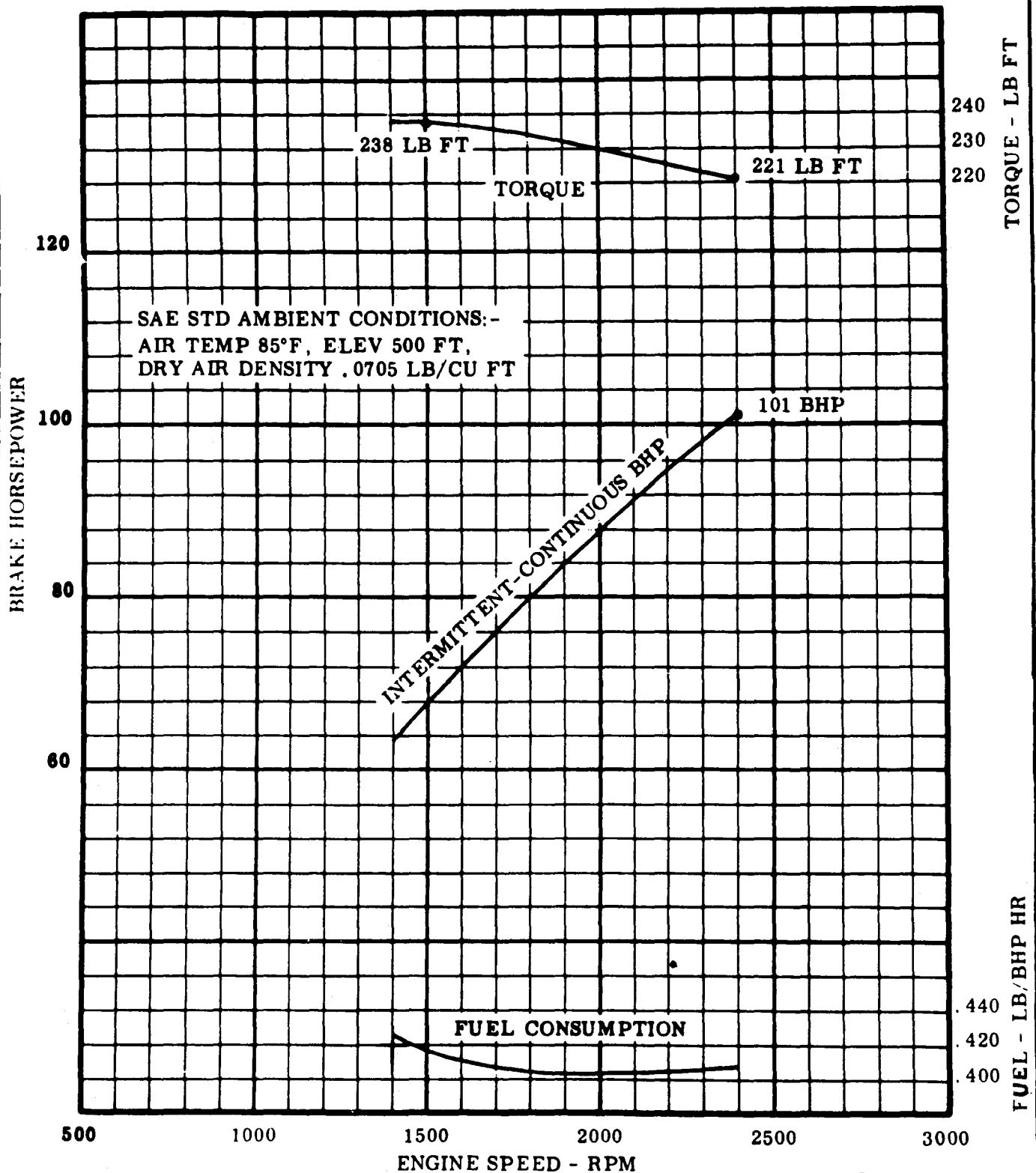




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

BASIC ENGINE
MODEL 4-53N DIESEL
4-VALVE HEAD
N40 OR N45 INJECTORS





DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

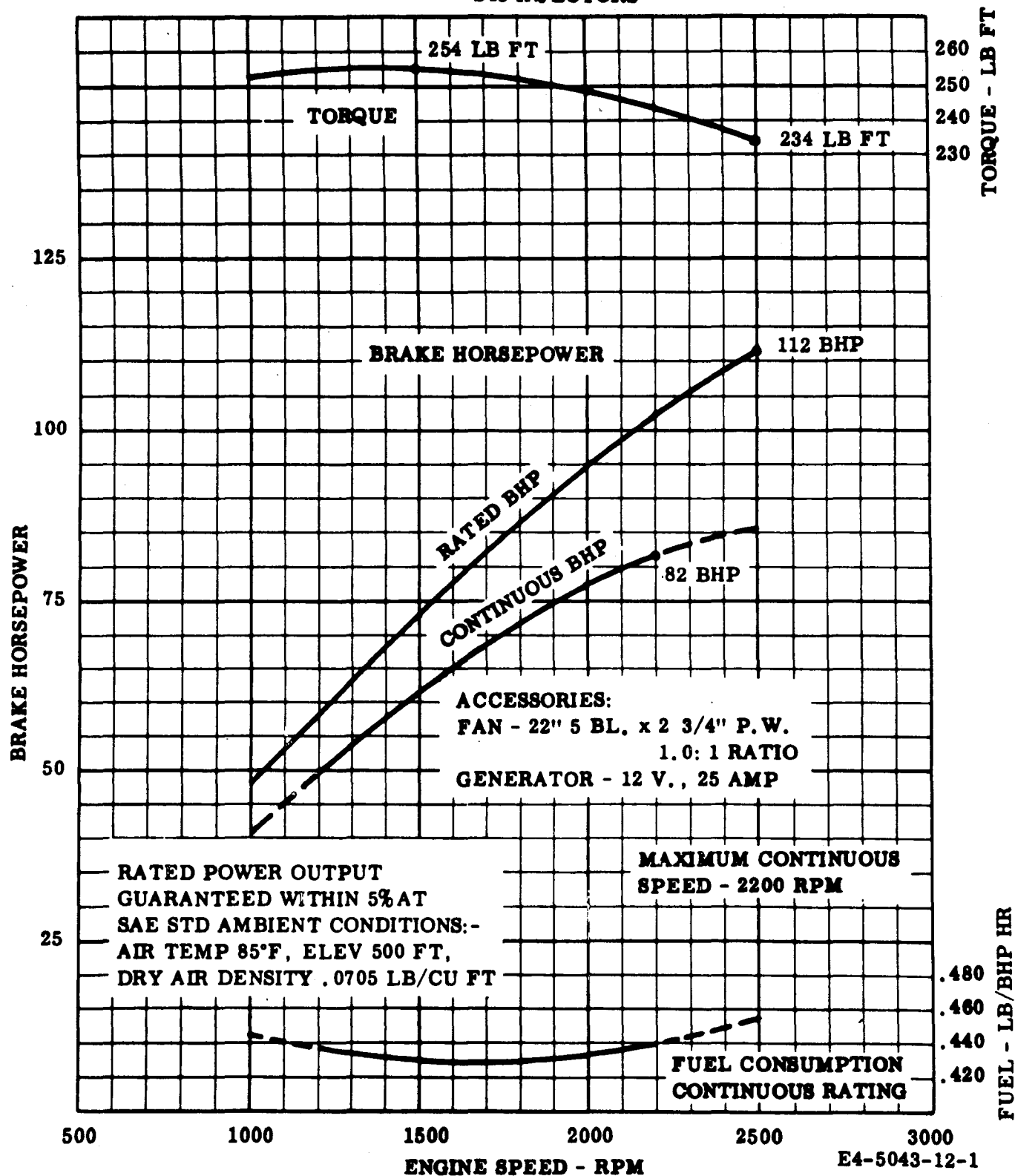
SERIES 53

MODEL 5043 - 7201

(4-53 4 VALVE HEAD)

PERFORMANCE WITH STANDARD EQUIPMENT

845 INJECTORS





DETROIT DIESEL ENGINE DIVISION

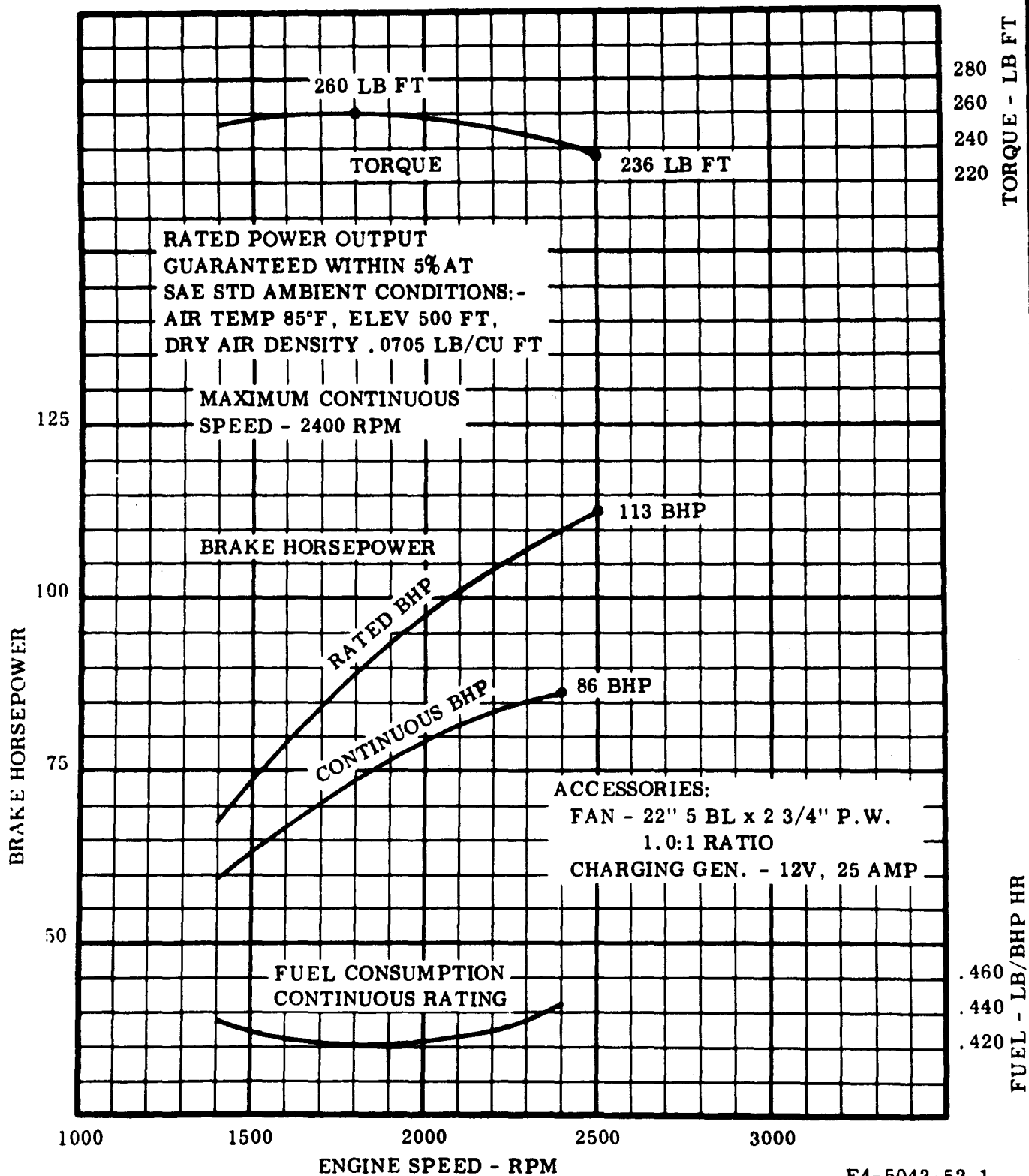
GENERAL MOTORS CORPORATION

SERIES 53N INDUSTRIAL

4-53N (4V) ENGINE

PERFORMANCE WITH STANDARD EQUIPMENT

N45 INJECTORS

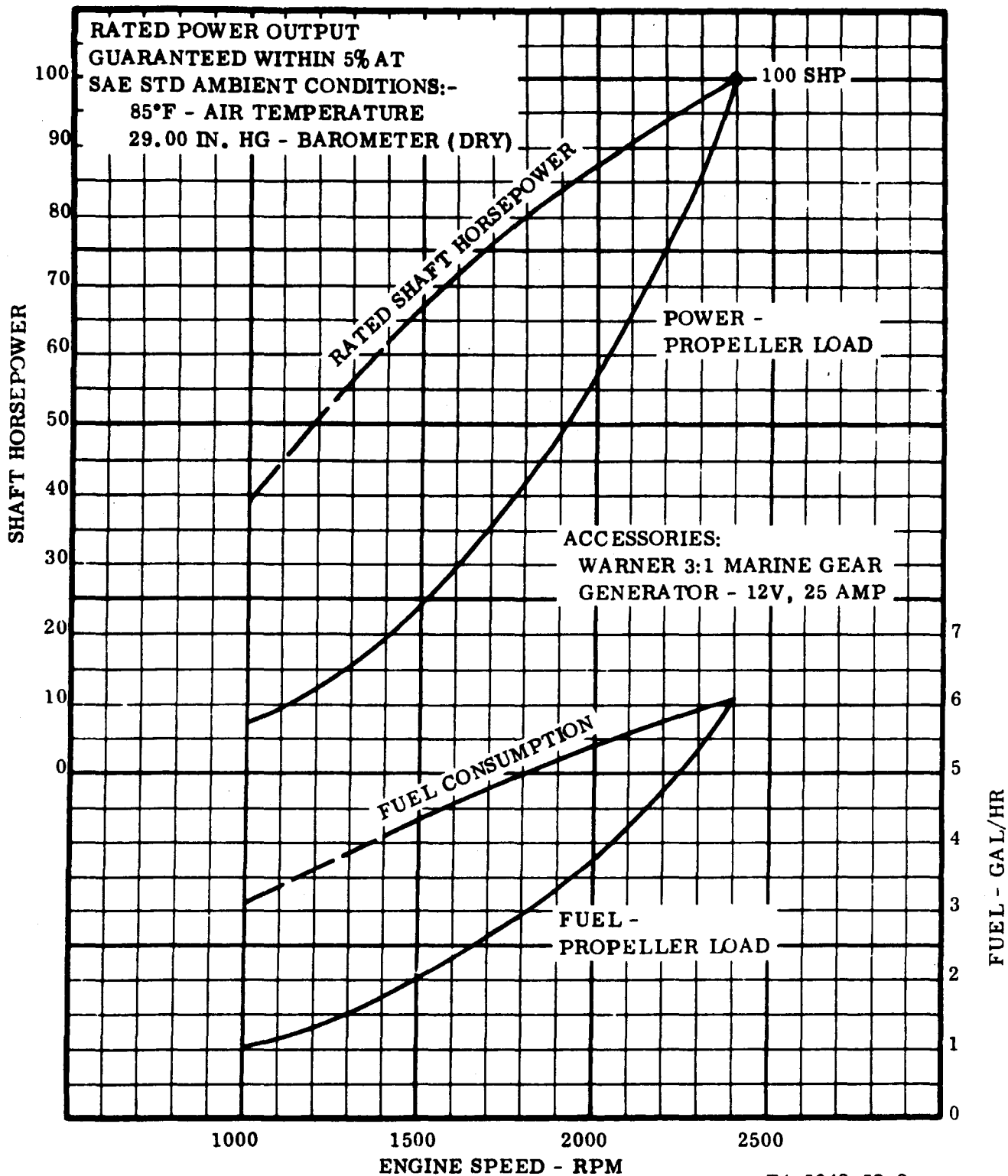




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

SERIES 53 MARINE
4-53N WORK BOAT
N40 INJECTORS

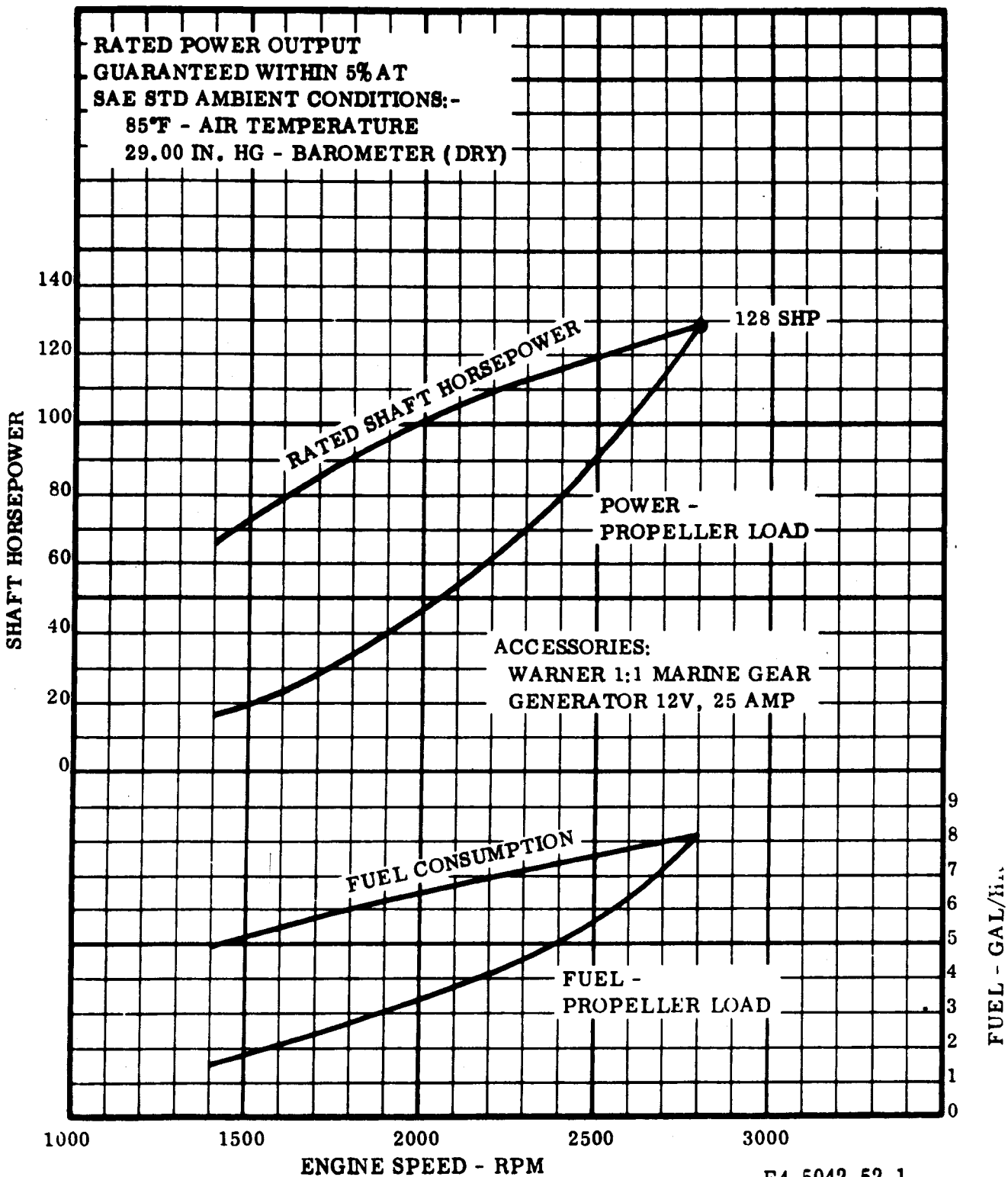




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

SERIES 53 MARINE
4-53N PLEASURE CRAFT
N50 INJECTORS



4-53 (4) & N

4-63T

4-53T ENGINE CURVES

<u>ENGINE</u>	<u>INJECTOR</u>	<u>BHP/RPM</u>	<u>TORQUE/RPM</u>	<u>CURVE NUMBER</u>	<u>DATE</u>
4-53T	5A55	155/2500	379/1800	E4-5041-32-9	5/18/79
4-53T	5A60	170/2500	402/1800	E4-5041-32-15	5/18/79
4-53T	N65	175/2500	420/1800	E4-5041-32-6	3/6/79

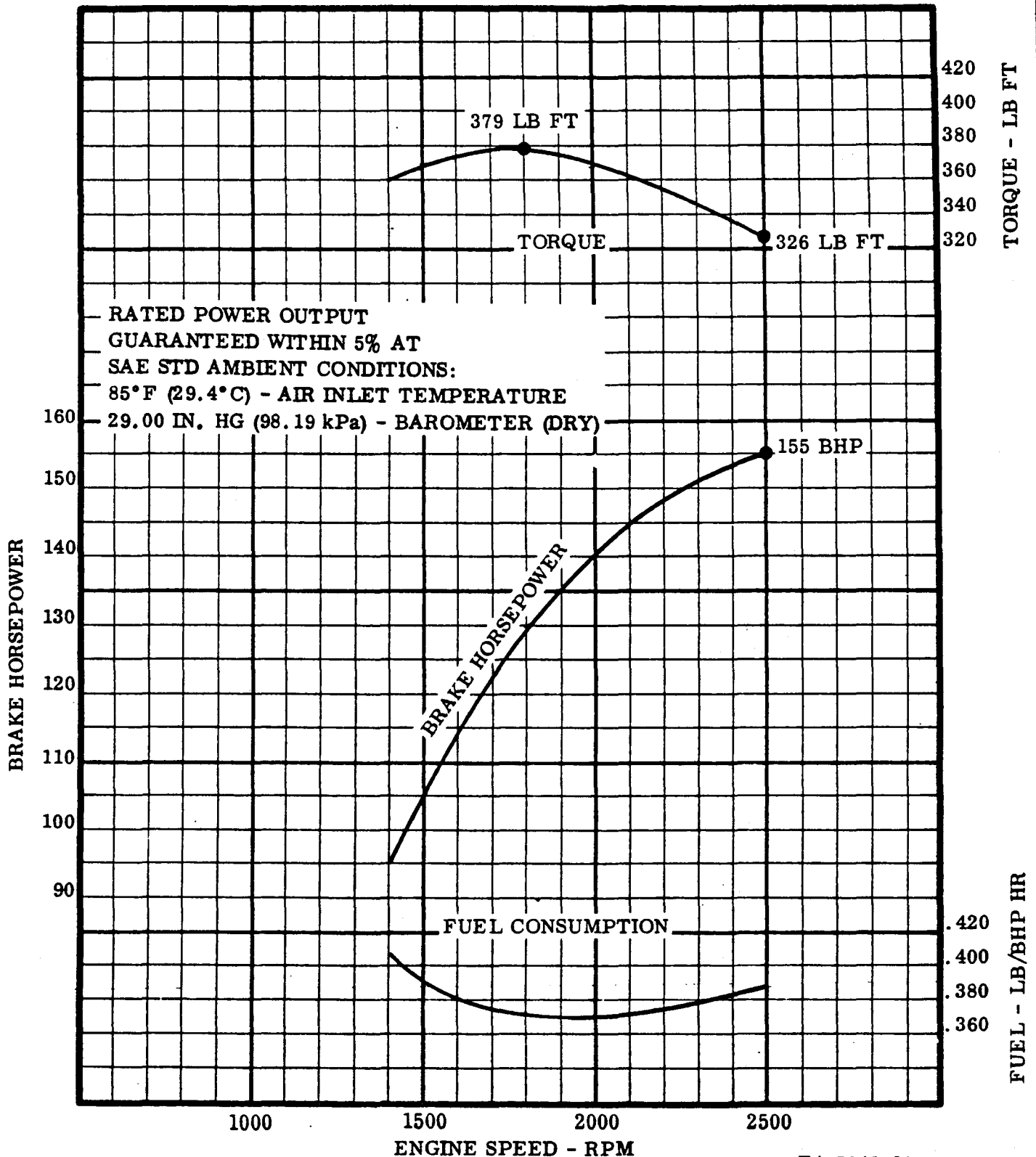
SA-0001

8/1/79



Detroit Diesel Allison
Division of General Motors Corporation

BASIC ENGINE
4L-53T DIESEL - INDUSTRIAL
5A55 INJECTORS, 1.496 TIMING
TO4B98 TURBOCHARGER (.96 A/R HSG.)



4-53T 155 BHP ENGINE SPECIFICATION
INDUSTRIAL

General Engine Description:

Model	5043-8301
Number of cylinders	4
Bore and stroke - in. (mm)	3.875 (98) x 4.5 (114)
Displacement - in. ³ (litres)	212 (3.48)
Compression ratio	18.7:1
Firing order	
Clockwise rotation (RH)	1-3-4-2
Counter clockwise rotation (LH)	1-2-4-3
Dimensions & weight (approx.)	
Length - in. (mm)	38.8 (985)
Width - in. (mm)	29.8 (757)
Height - in. (mm)	38.4 (975)
Weight - lbs. (kg)	1260 (571)

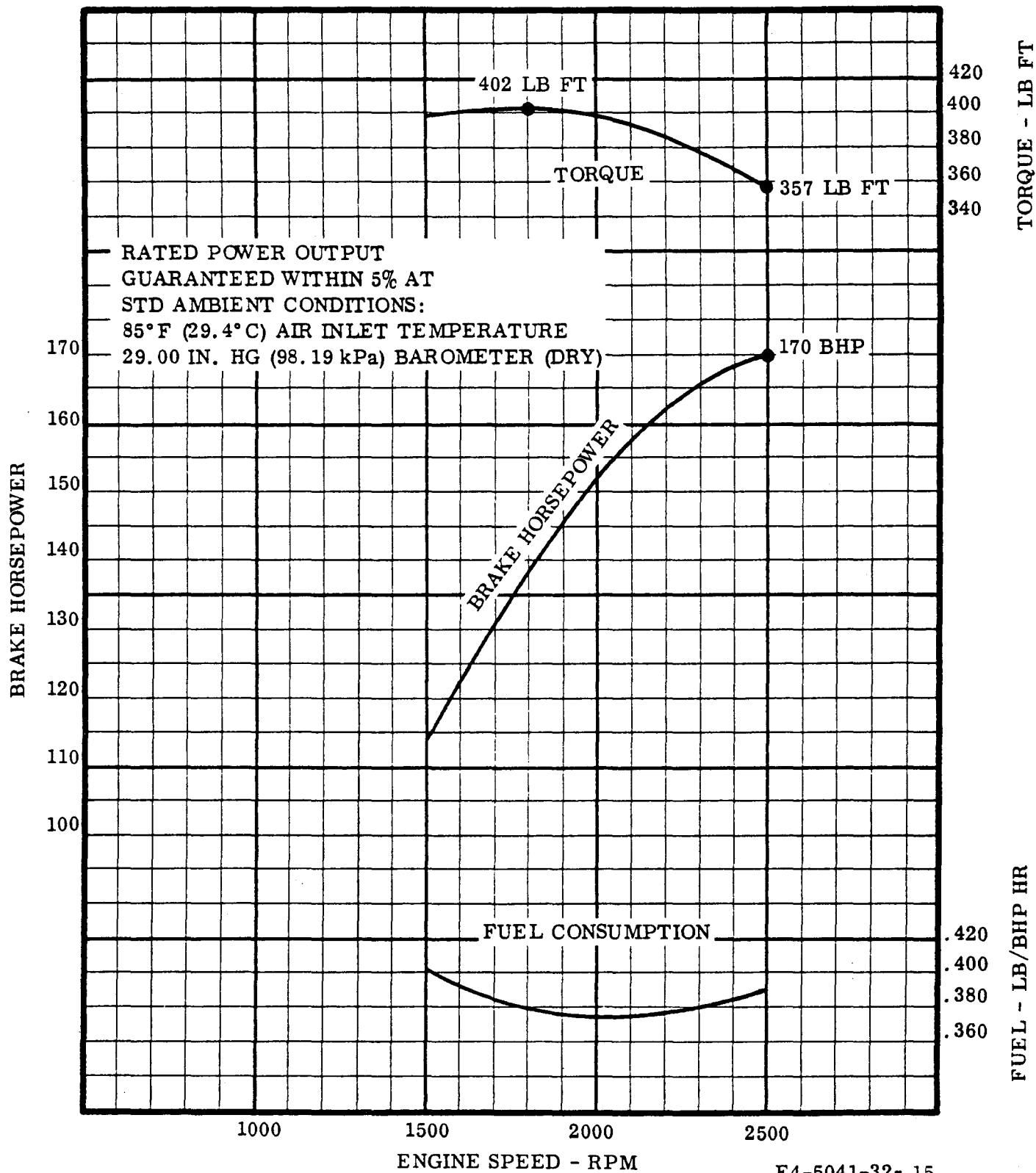
Technical Engine Specifications:

Injector	5A55
Engine speed - RPM	2500
Brake horsepower - BHP (kW)	155
BMEP - PSI (kPa)	116 (799.82)
Peak torque LB FT (N·m) @ RPM	379 (514) @ 1800
Fuel consumption - LB/HR (kg/HR)	60.8 (27.6)
Specific fuel cons. - LB/BHP HR (g/kW HR)	.392 (238)
Fuel pump suction at pump inlet	
Maximum - in. Hg (kPa)	
Clean system	6 (20.32)
Dirty system	12 (40.63)
Air flow - CFM (m ³ /min.)	580 (16.43)
Airbox pressure - Min. in. Hg (kPa)	36 (121.90)
Air intake restriction, max. in. H ₂ O (kPa)	
(Dry type air cleaner)	
Full load - dirty	20 (4.98)
- clean	12 (2.99)
No load - dirty	12 (2.99)
- clean	7.3 (1.82)
Exhaust temperature - °F (°C)	755 (737.2)
Exhaust flow - CFM (m ³ /min.)	1295 (36.67)
Exhaust back press., max. in. Hg (kPa)	
Full load	2.5 (8.47)
No load	1.8 (6.09)
Coolant flow - GPM (litre/min.)	56 (211.98)
Coolant normal operating temp. °F (°C)	180 (82.2)
Heat rejection - BTU/HP MIN. (W/kW) /	30 (707)
Coolant inlet restriction, max. - in. Hg (kPa)	3.0 (10.16)
Lubricating oil press., normal - psi (kPa)	40 (275.80) - 60 (413.70)
Lubricating oil temp., in pan °F (°C)	200 (182.2) - 235 (217.2)



Detroit Diesel Allison
Division of General Motors Corporation

BASIC ENGINE
4L-53T DIESEL - INDUSTRIAL
5A60 INJECTORS 1.496 TIMING
T04B98 TURBOCHARGER (.96 A/R HSG.)



4L-53T 170 BHP ENGINE SPECIFICATION
INDUSTRIAL

General Engine Specification:

Model	5043-8301
Number of cylinders	4
Bore and stroke - in. (mm)	3.875 (98) x 4.5 (114)
Displacement - in. ³ (litres)	212 (3.48)
Compression ratio	18.7:1
Firing order	
Clockwise rotation (RH)	1-3-4-2
Counter clockwise rotation (LH)	1-2-4-3
Approximate dimensions & weight	
Length - in. (mm)	38.8 (986)
Width - in. (mm)	29.8 (757)
Height - in. (mm)	38.4 (975)
Weight - lbs. (kg)	1260 (571)

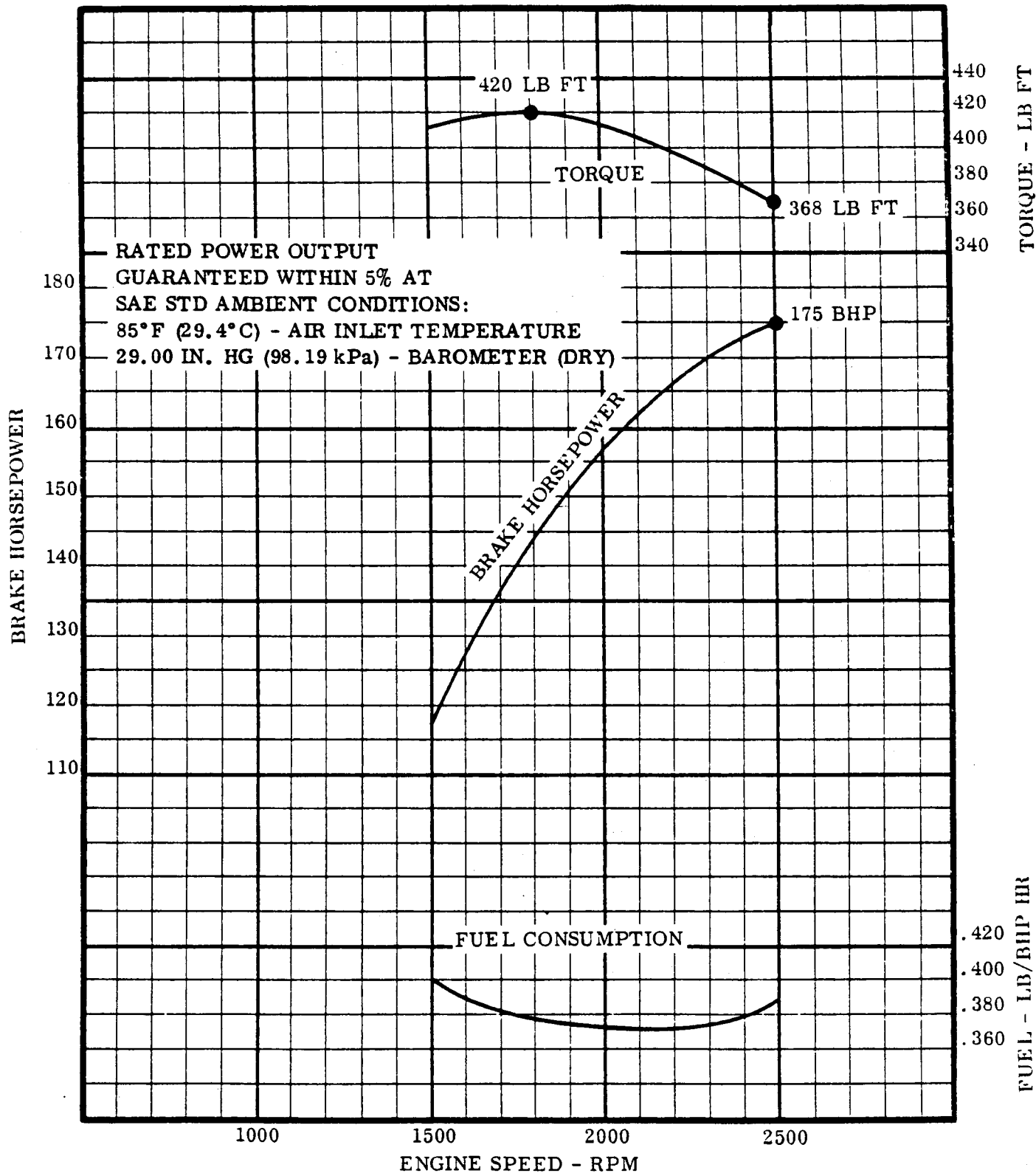
Technical Engine Specifications:

Injector	5A60
Engine speed - RPM	2500
Brake horsepower - BHP (kW)	170 (127)
BMEP - PSI (kPa)	127 (875.67)
Peak torque LB FT (N·m) @ RPM	402 (545) @ 1800
Fuel consumption - LB/HR (kg/HR)	66.3 (30.1)
Specific fuel cons. - LB/BHP HR (g/kW HR)	.390 (237)
Fuel pump suction at pump inlet	
Maximum - in. Hg (kPa)	
Clean system	6 (20.32)
Dirty system	12 (40.63)
Airflow - CFM (m ³ /min.)	596 (16.88)
Airbox pressure - Min. in. Hg (kPa)	39 (132.05)
Air intake restriction, max. in. H ₂ O (kPa)	
(Dry type air cleaner)	
Full load - dirty	20 (4.98)
- clean	12 (2.99)
No load - dirty	12 (2.99)
- clean	7.3 (1.82)
Exh. temperature - °F (°C)	790 (421.1)
Exh. flow - CFM (m ³ /min.)	1365 (38.66)
Exh. back press., max. in. Hg (kPa)	
Full load	2.5 (8.47)
No load	1.8 (6.09)
Coolant flow - GPM (litre/min.)	56 (211.98)
Coolant normal operating temp. °F (°C)	180 (82.2)
Heat rejection - BTU/HP Min. (W/kW)	30 (707)
Coolant inlet restriction, max. - in. Hg (kPa)	3.0 (10.16)
Lubricating oil press., normal - psi (kPa)	40 (275.80) - 60 (413.70)
Lubricating oil temp., in pan °F (°C)	200 (93.3) - 235 (112.8)



Detroit Diesel Allison
Division of General Motors Corporation

BASIC ENGINE
4L-53T DIESEL - INDUSTRIAL
N65 INJECTORS, 1.508 TIMING
TO4B98 TURBOCHARGER (.96 A/R HSG.)



4-53T 175 BHP ENGINE SPECIFICATION
INDUSTRIAL

General Engine Description:

Model	5043-8301
Number of cylinders	4
Bore and stroke - in. (mm)	3.875 (98) x 4.5 (114)
Displacement - in. ³ (litres)	212 (3.48)
Compression ratio	18.7:1
Firing order	
Clockwise rotation (RH)	1-3-4-2
Counter clockwise rotation (LH)	1-2-4-3
Dimensions & weight (approx.)	
Length - in. (mm)	40 (1016)
Width - in. (mm)	32 (813)
Height - in. (mm)	37 (940)
Weight - lbs. (kg)	1300 (590)

Technical Engine Specifications:

Injector	N65
Engine speed - RPM	2500
Brake horsepower - BHP (kW)	175 (131)
BMEP - PSI (kPa)	131 (903.24)
Peak torque LB FT (N·m) @ RPM	420 (569) @ 1800
Fuel consumption - LB/HR (kg/HR)	67.9 (30.8)
Specific fuel cons. - LB/BHP HR (g/kW HR)	.388 (236)
Fuel pump suction at pump inlet	
Maximum - in. Hg (kPa)	
Clean system	6 (20.32)
Dirty system	12 (40.63)
Air flow - CFM (m ³ /min.)	600 (16.99)
Airbox pressure, Min. - in. Hg (kPa)	39 (132.05)
Air intake restriction, max. in. H ₂ O (kPa)	
(Dry type air cleaner)	
Full load - dirty	20 (4.98)
- clean	12 (2.99)
No load - dirty	12.0 (2.99)
- clean	7.3 (1.82)
Exhaust temperature - °F (°C)	325 (440.5)
Exhaust flow - CFM (m ³ /min.)	1415 (40.07)
Exhaust back press., max. in. Hg (kPa)	
Full load	2.5 (8.47)
No load	1.8 (6.09)
Coolant flow - GPM (litre/min.)	56 (211.98)
Coolant normal operating temp. °F (°C)	180 (82.2)
Heat rejection - BTU/HP Min. (W/kW)	30 (707)
Coolant inlet restriction, max. - in. Hg (kPa)	3.0 (10.16)
Lubricating oil press. normal - psi (kPa)	40 (275.80) - 60 (413.70)
Lubricating oil temp., in pan °F (°C)	200 (93.3) - 235 (112.8)

E4-5041-32-6

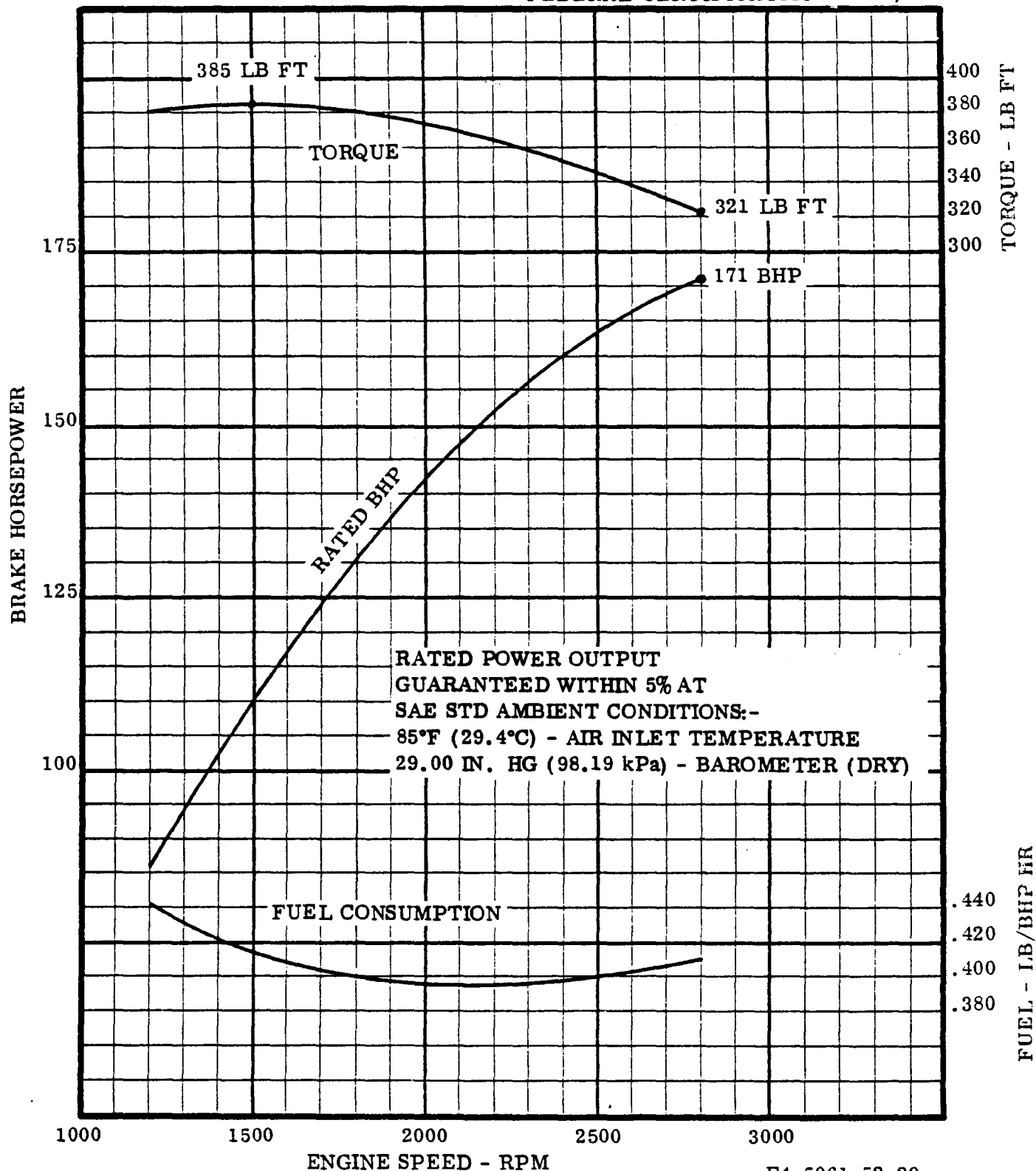
Rev. 3-6-78

Sheet 2 of 2



Detroit Diesel Allison
Division of General Motors Corporation

BASIC ENGINE
MODEL 6V-53N DIESEL - AUTOMOTIVE
ADVANCED CAMSHAFT TIMING
C40 INJECTORS, 1.470 TIMING
FEDERAL CERTIFICATION - 1977, 78

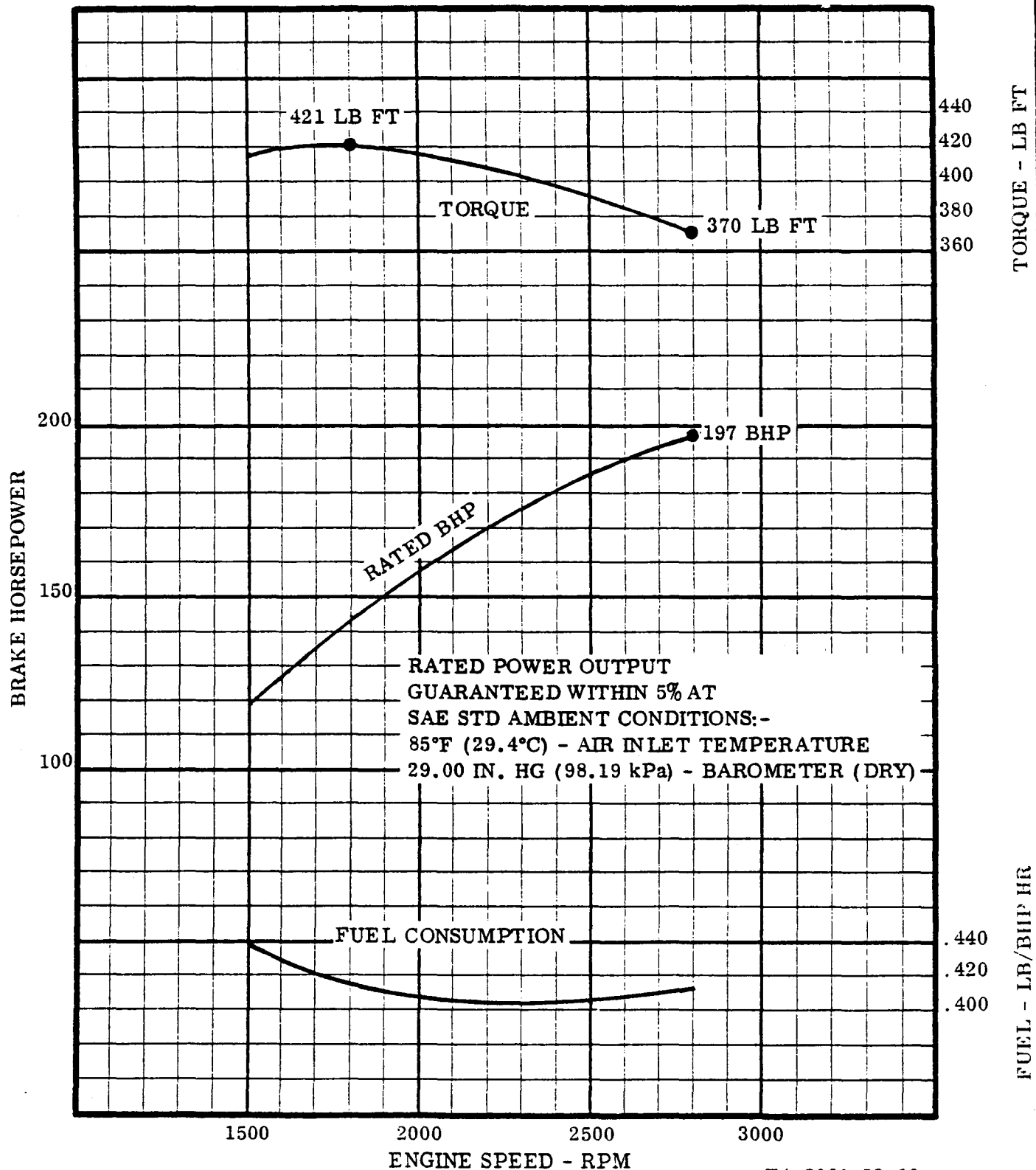




Detroit Diesel Allison
Division of General Motors Corporation

BASIC ENGINE
MODEL 6V-53N DIESEL - AUTOMOTIVE
ADVANCED CAMSHAFT TIMING
C45 INJECTORS, 1.470 TIMING

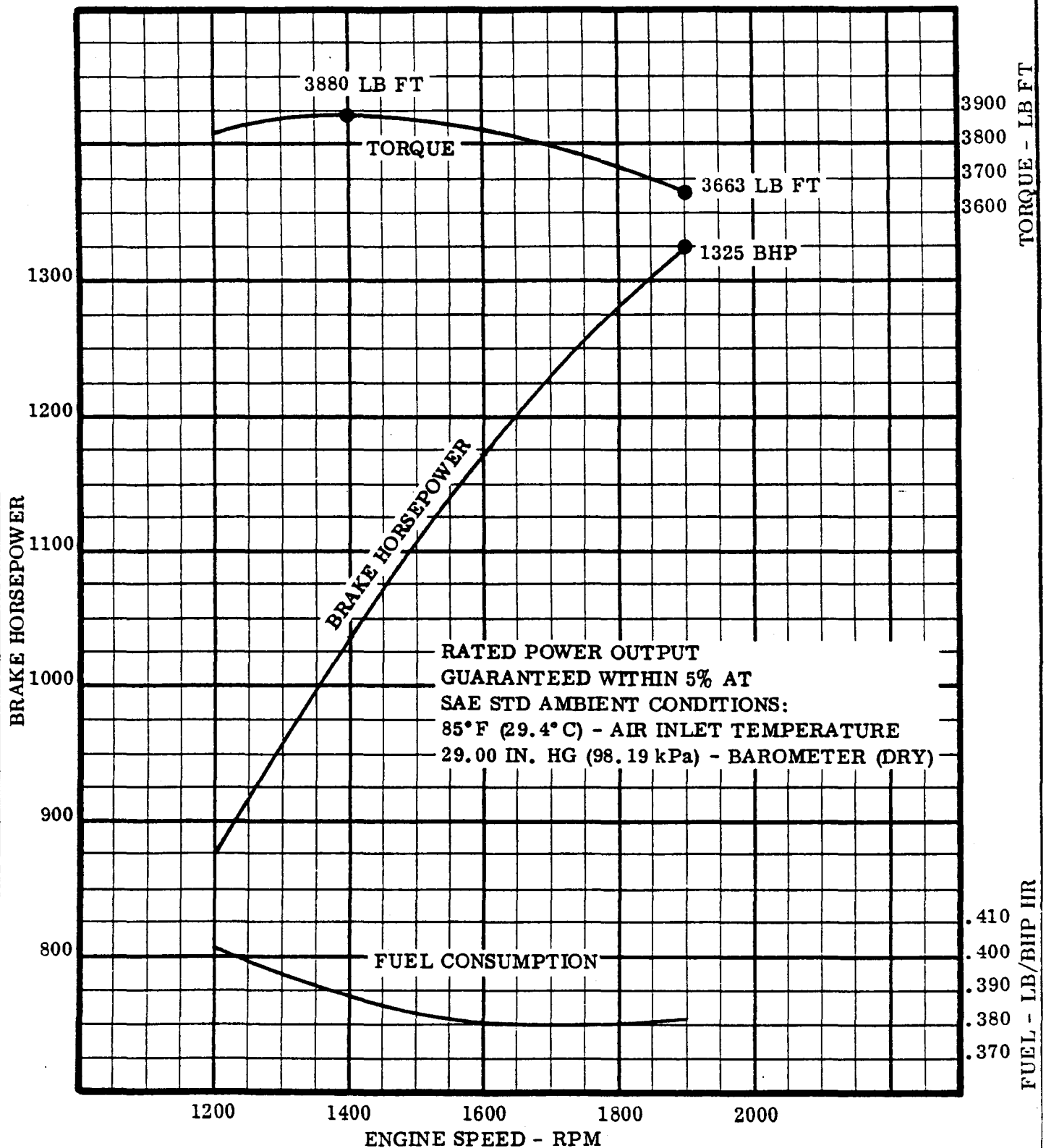
FEDERAL CERTIFICATION - 1977, 78





Detroit Diesel Allison
Division of General Motors Corporation

BASIC ENGINE
MODEL 16V-149T DIESEL
150 INJECTORS



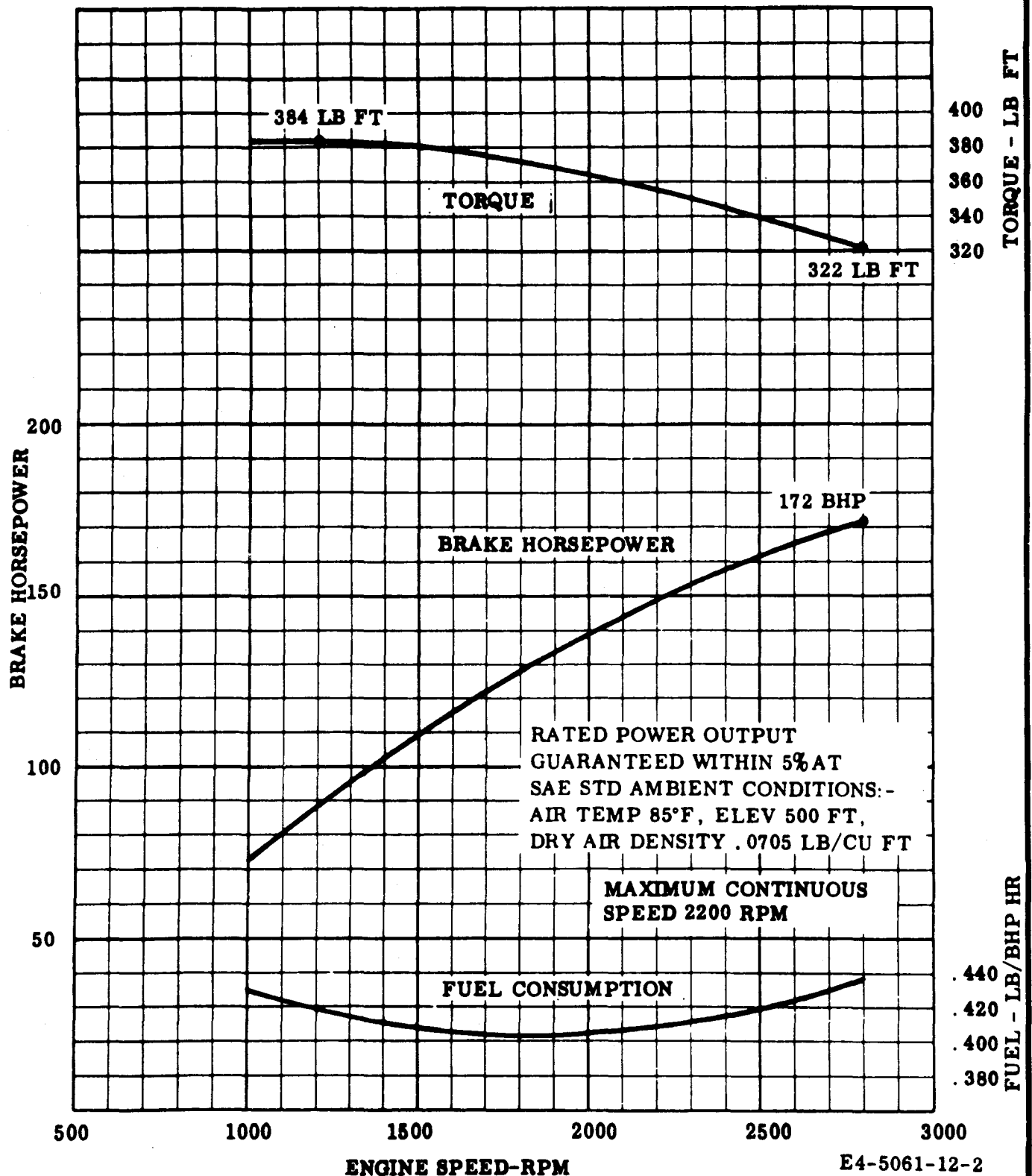
SV-53 B N



DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

BASIC ENGINE
MODEL 6V-53 DIESEL
4 VALVE HEAD
840 INJECTORS

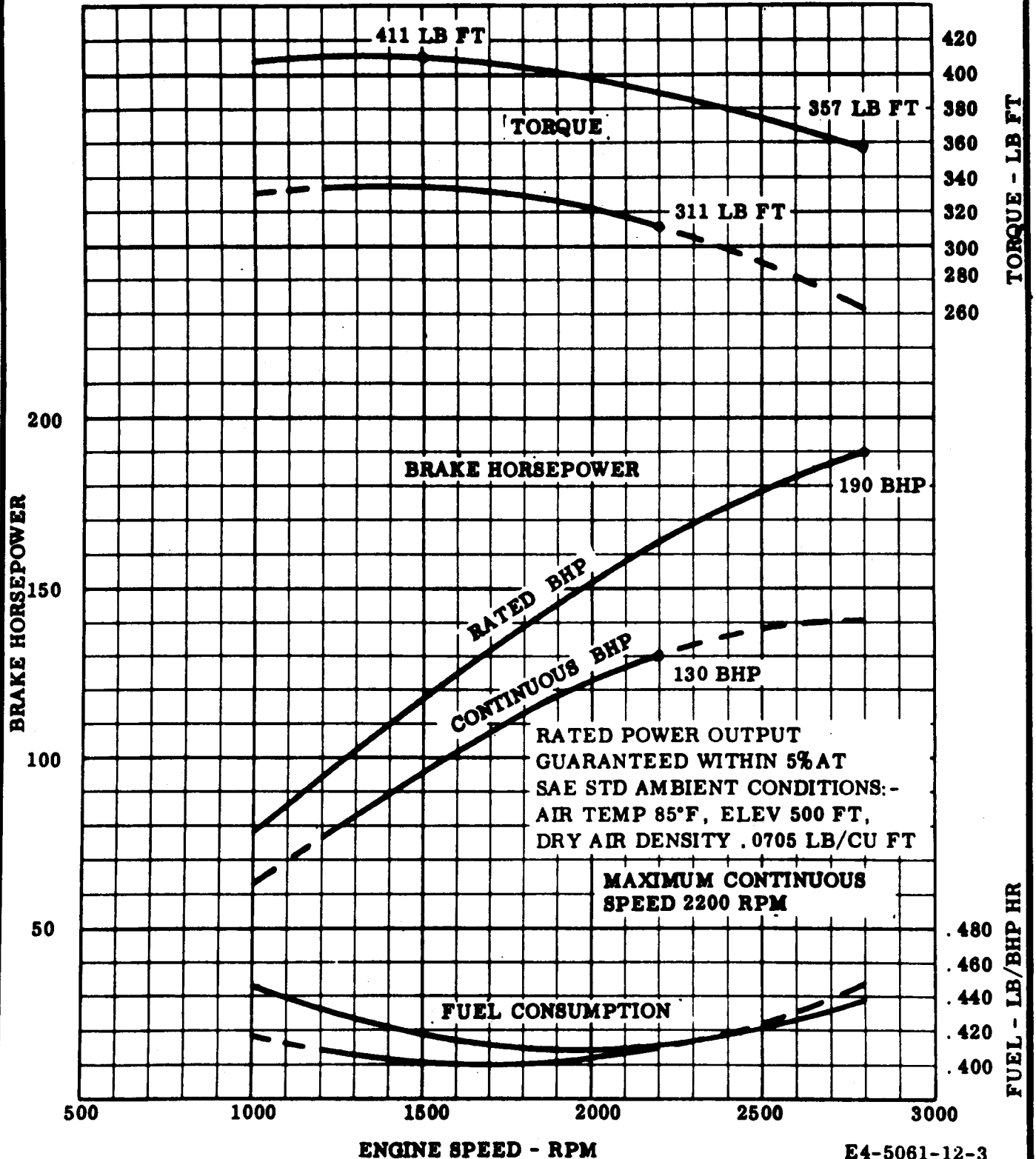




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

BANC ENGINE
MODEL 6V-53 DIESEL
4 VALVE HEAD
845 INJECTORS

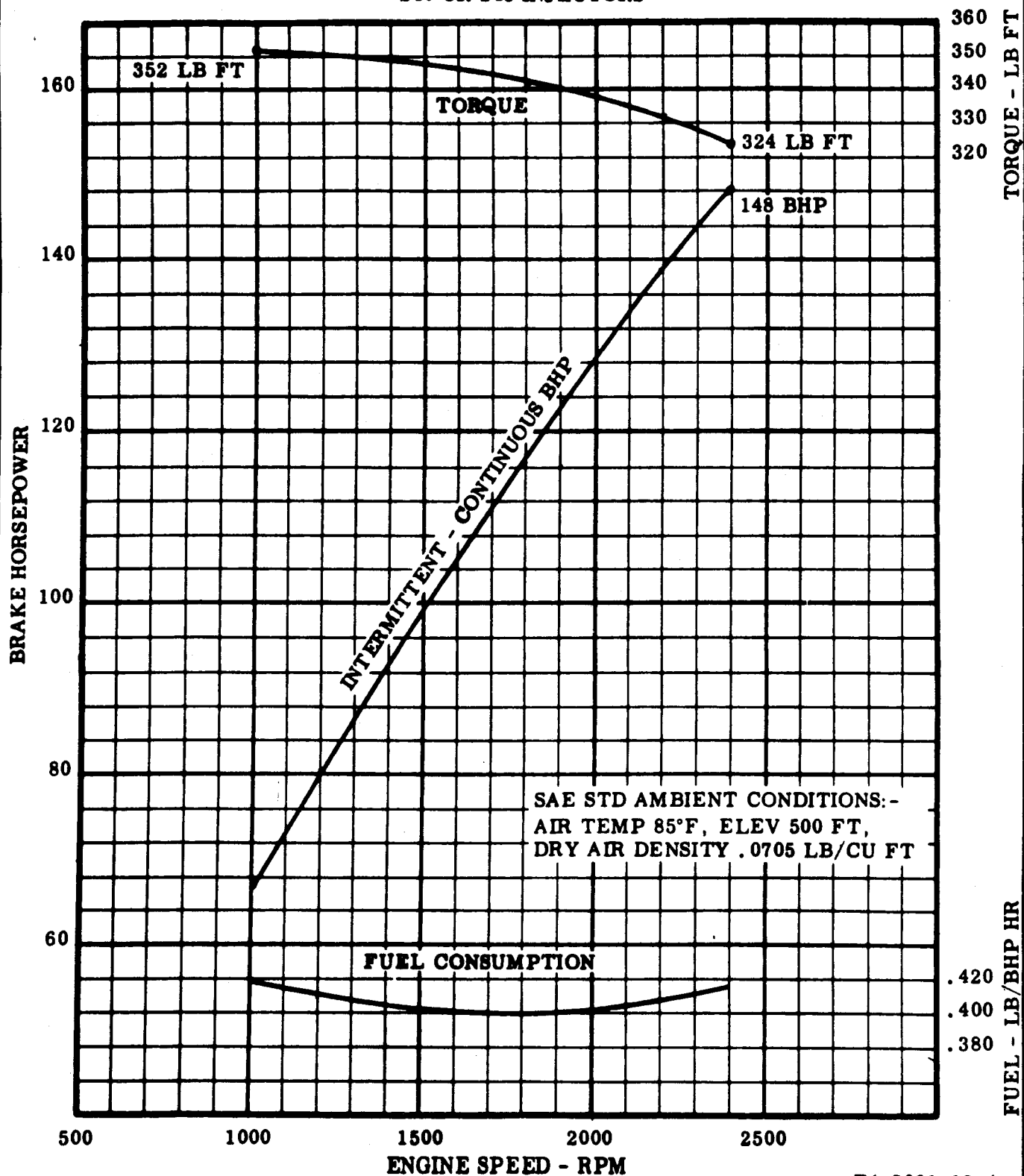




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

BASIC ENGINE
MODEL 6V-53 DIESEL
4-VALVE HEAD
840 OR 845 INJECTORS

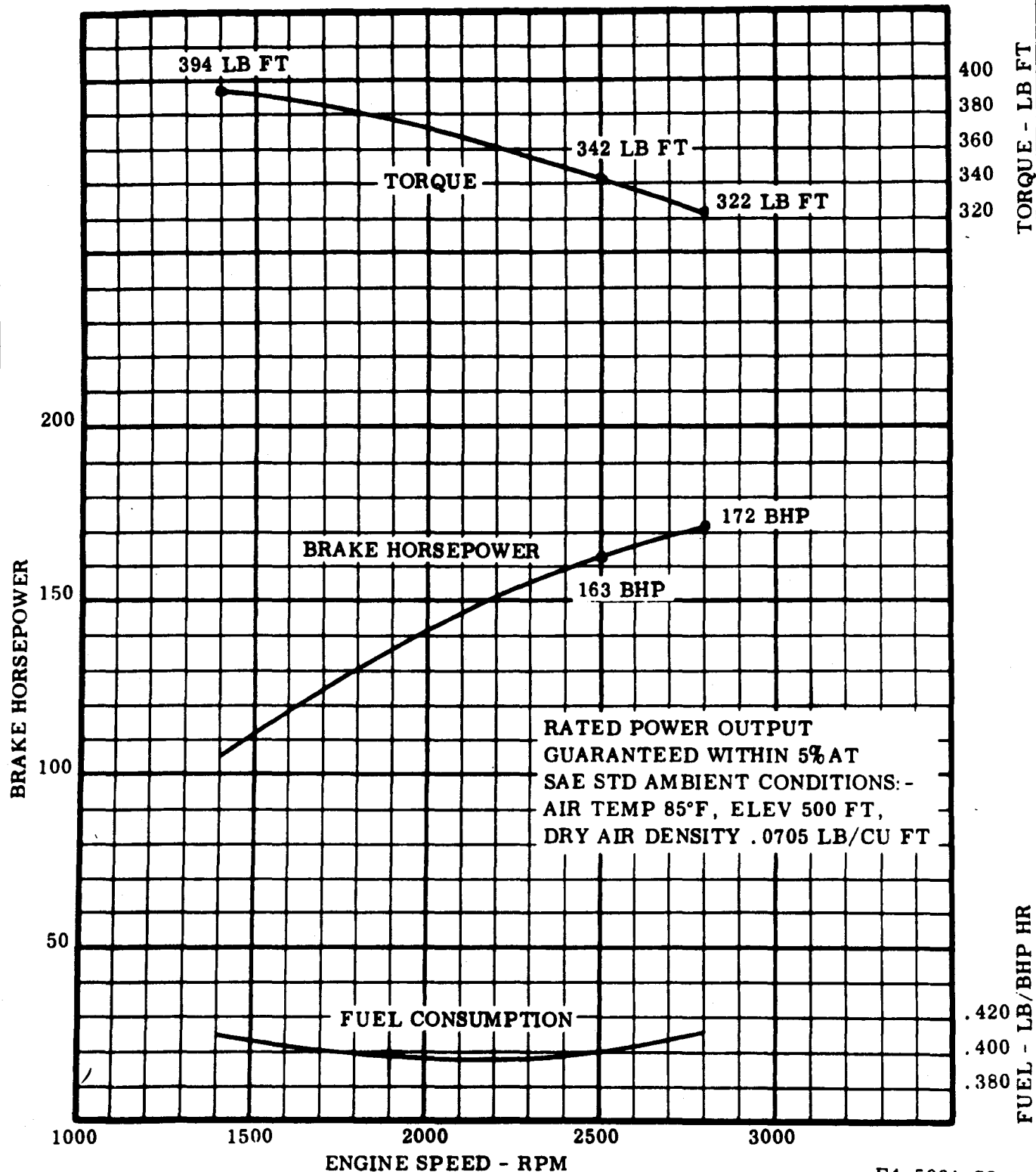




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

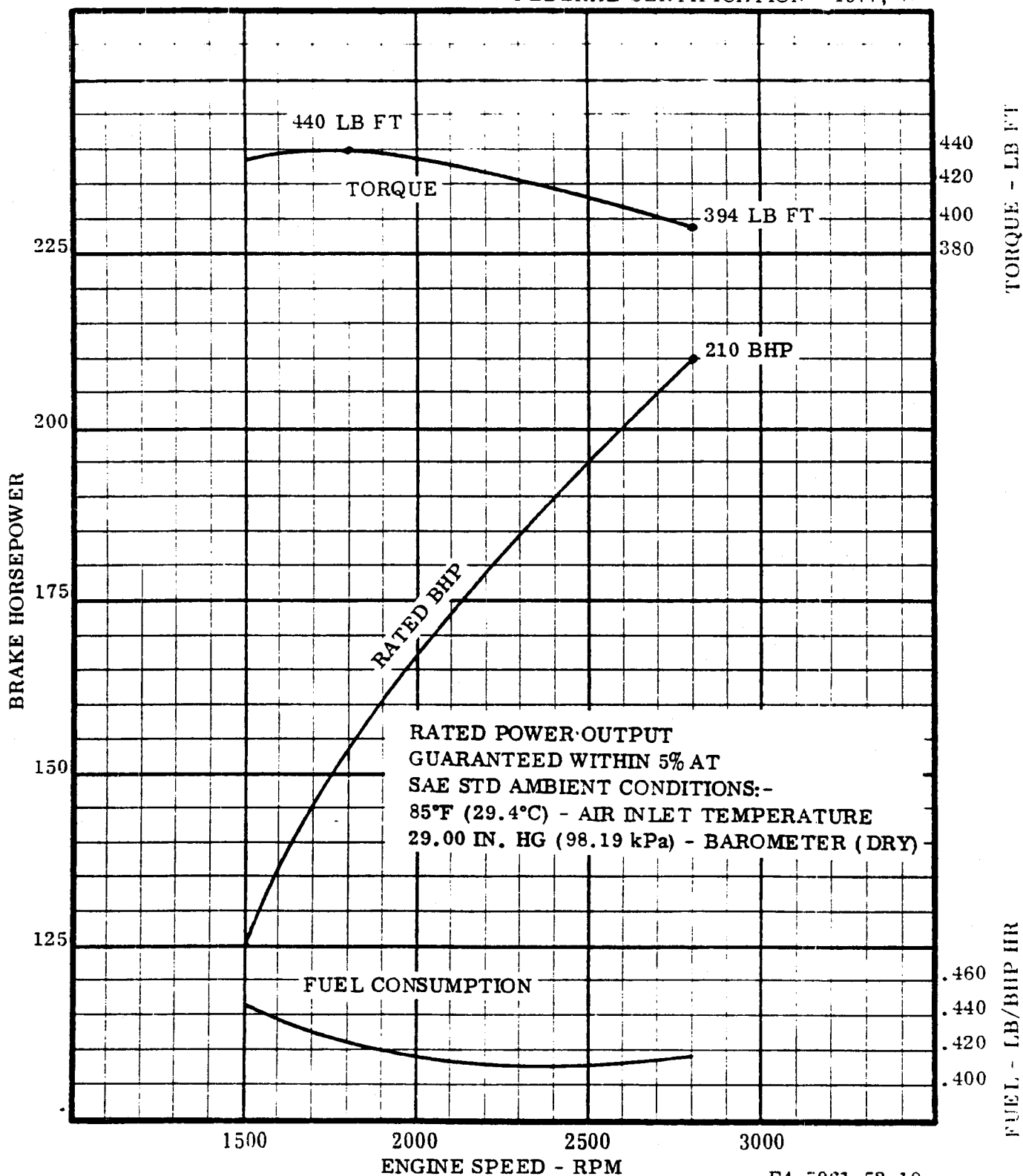
BASIC ENGINE
MODEL 6V-53N DIESEL
(4 VALVE HEAD)
N40 INJECTORS





Detroit Diesel Allison
Division of General Motors Corporation

BASIC ENGINE
MODEL 6V-53N DIESEL - AUTOMOTIVE
ADVANCED CAMSHAFT TIMING
C50 INJECTORS, 1.470 TIMING
FEDERAL CERTIFICATION - 1977, 78

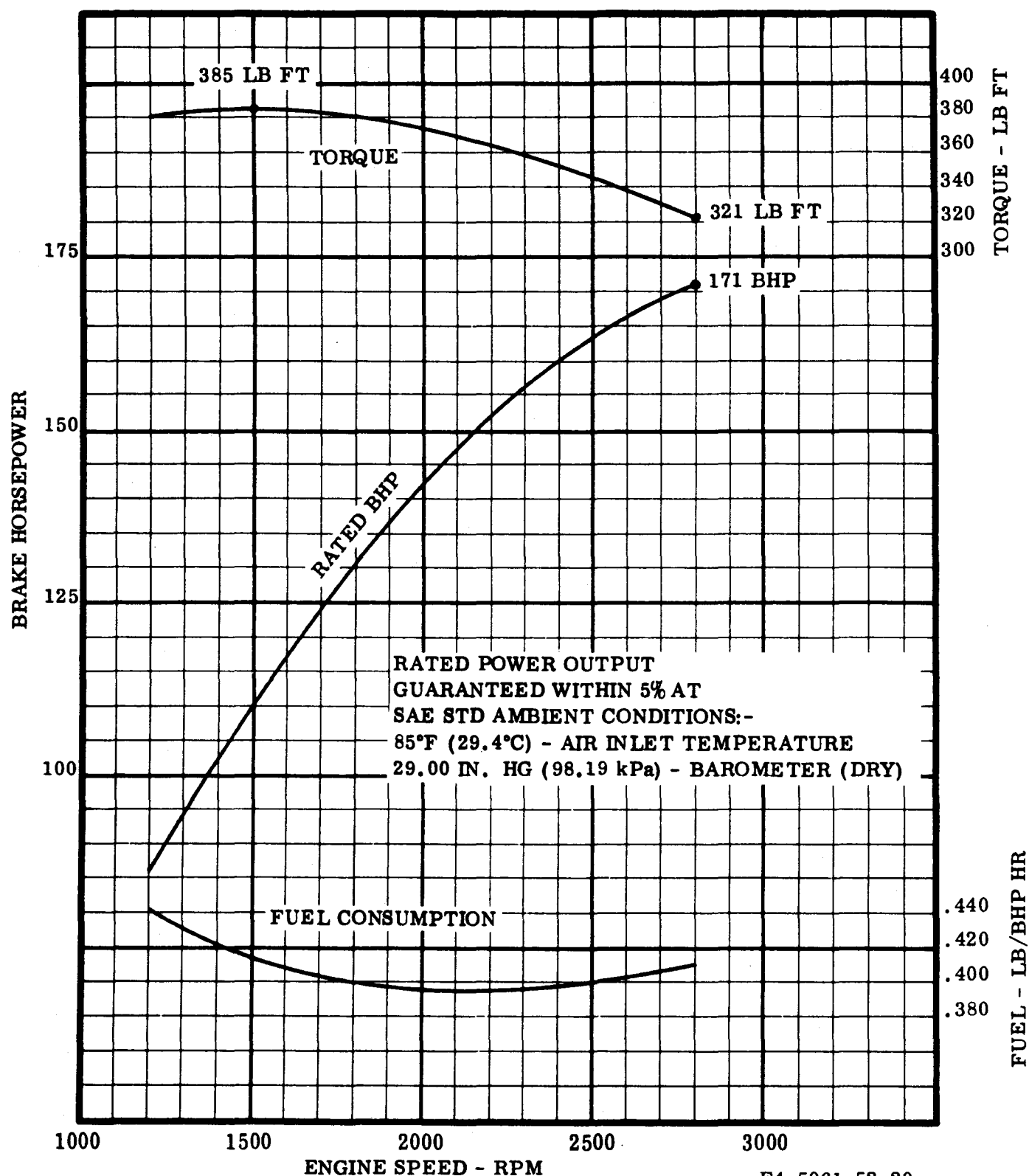


6V-53T



Detroit Diesel Allison
Division of General Motors Corporation

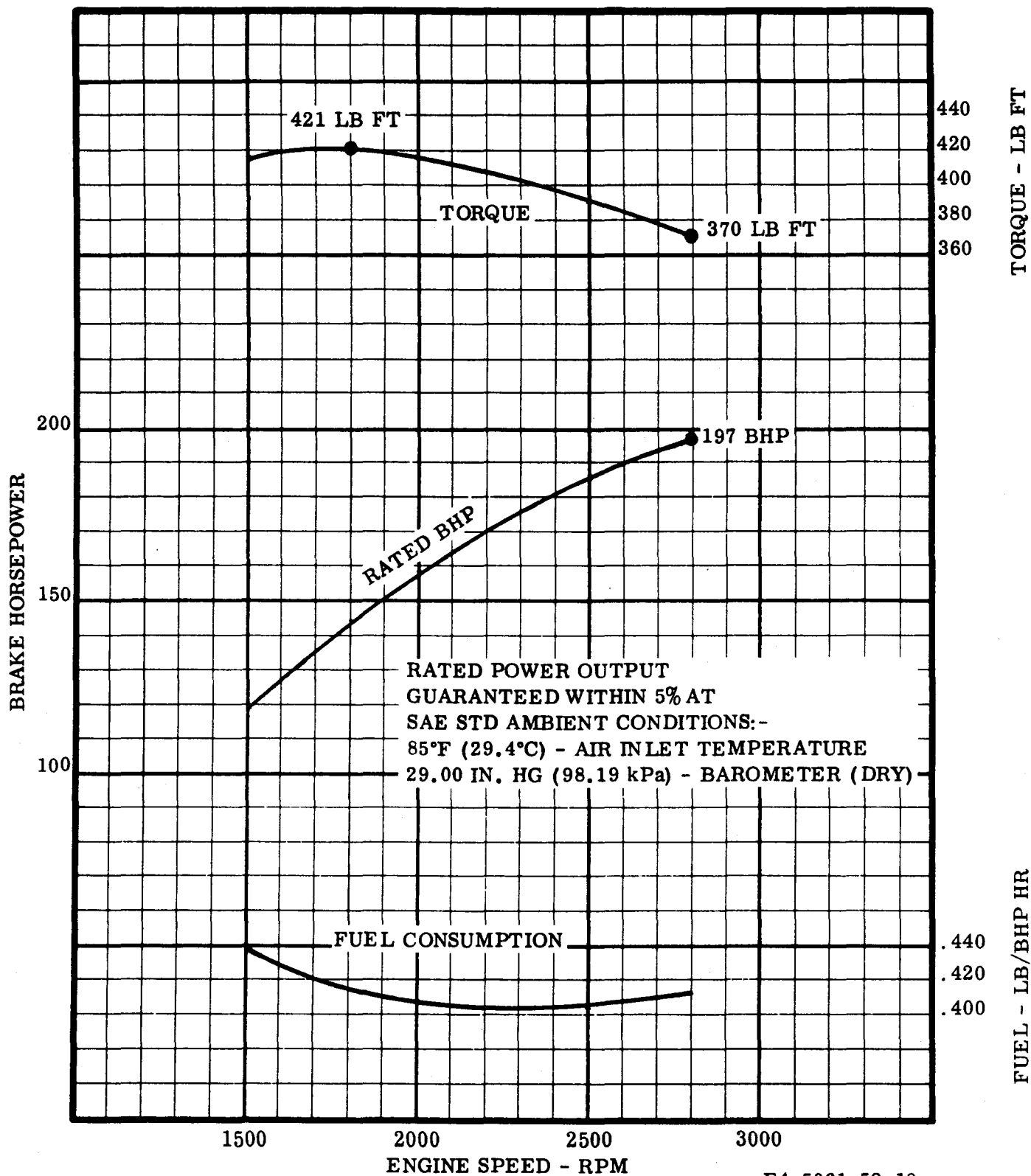
BASIC ENGINE
MODEL 6V-53N DIESEL - AUTOMOTIVE
ADVANCED CAMSHAFT TIMING
C40 INJECTORS, 1.470 TIMING





Detroit Diesel Allison
Division of General Motors Corporation

BASIC ENGINE
MODEL 6V-53N DIESEL - AUTOMOTIVE
ADVANCED CAMSHAFT TIMING
C45 INJECTORS, 1.470 TIMING





DETROIT DIESEL ENGINE DIVISION

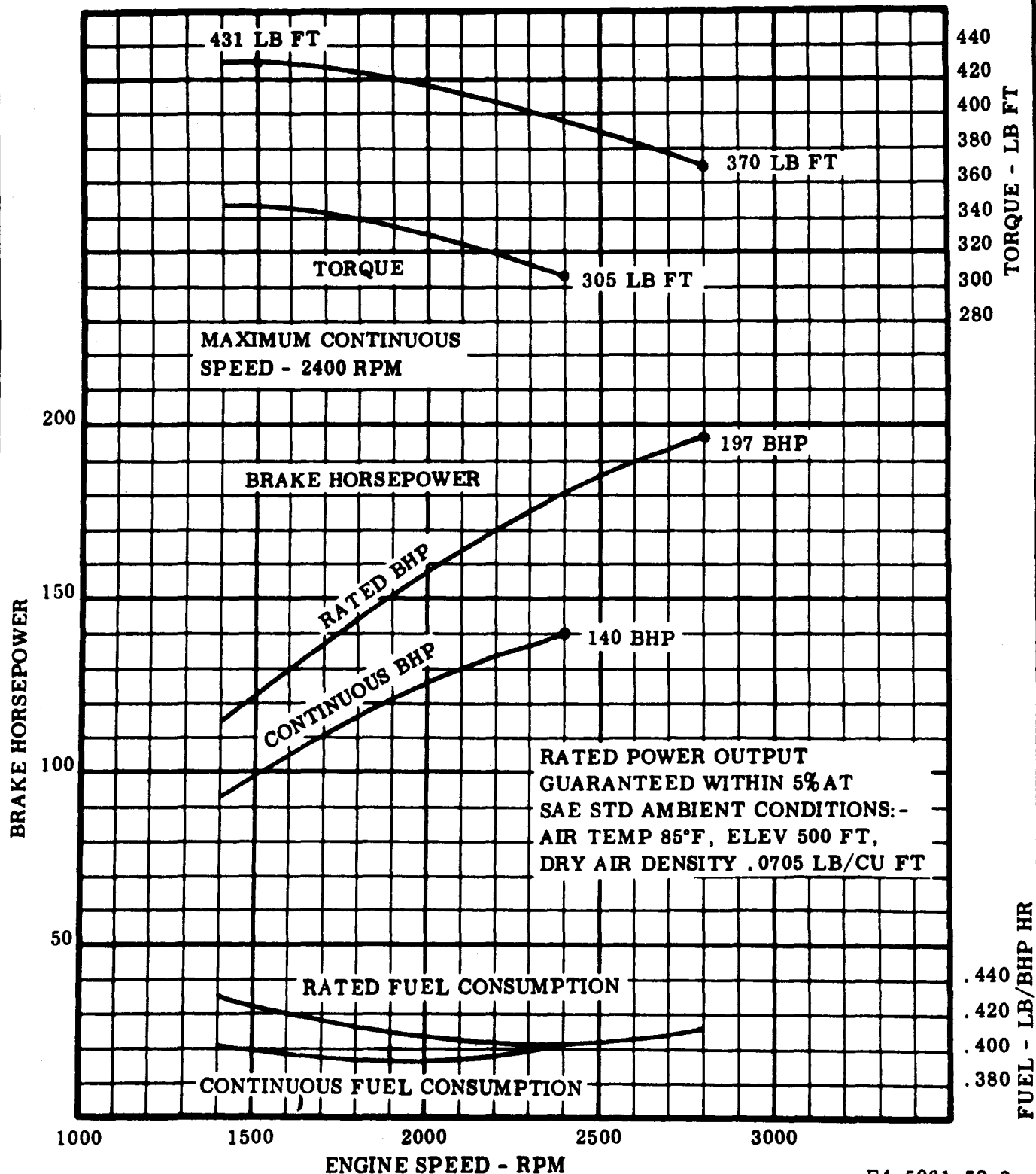
GENERAL MOTORS CORPORATION

BASIC ENGINE

MODEL 6V-53N DIESEL

(4 VALVE HEAD)

N45 INJECTORS

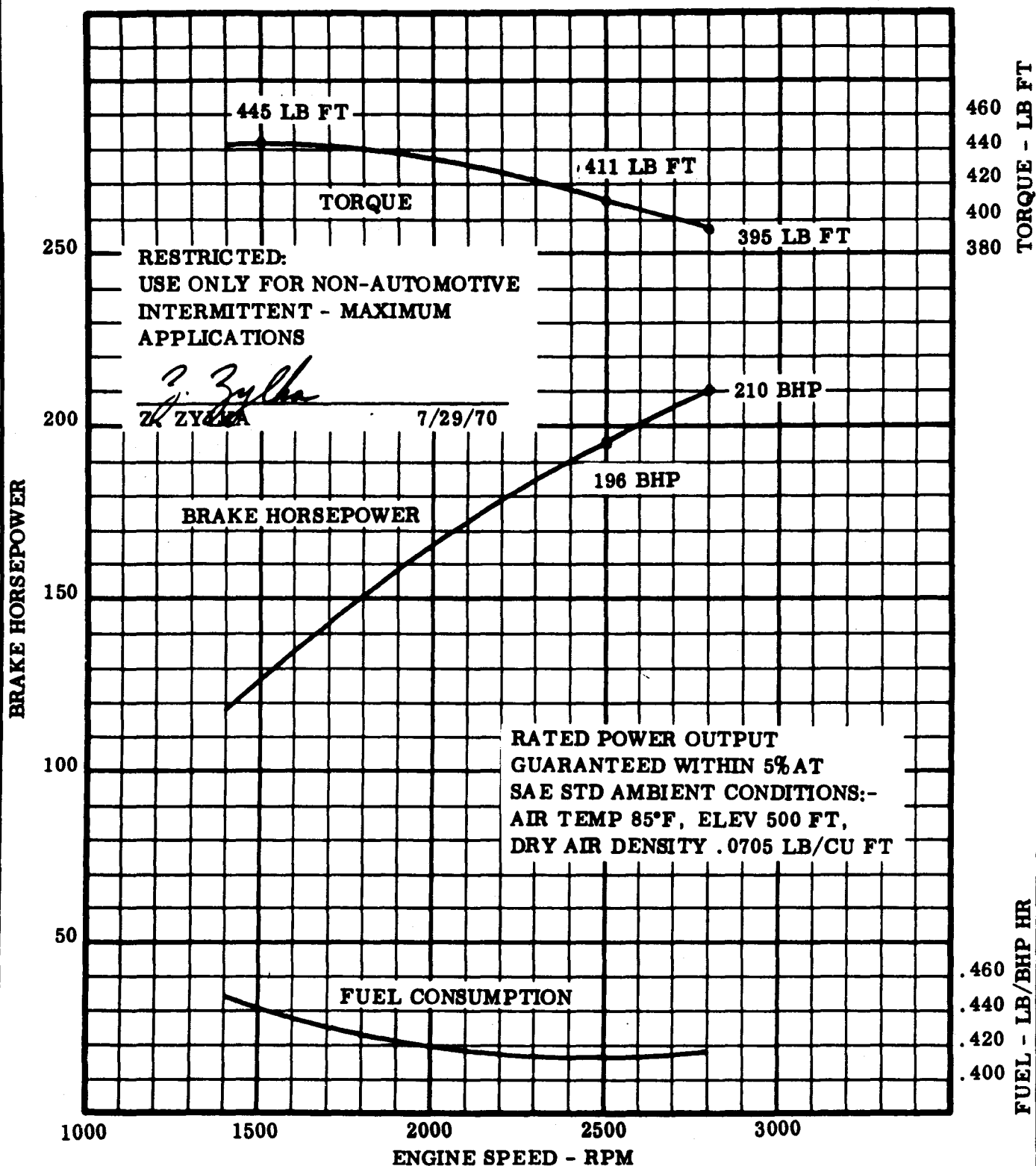




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

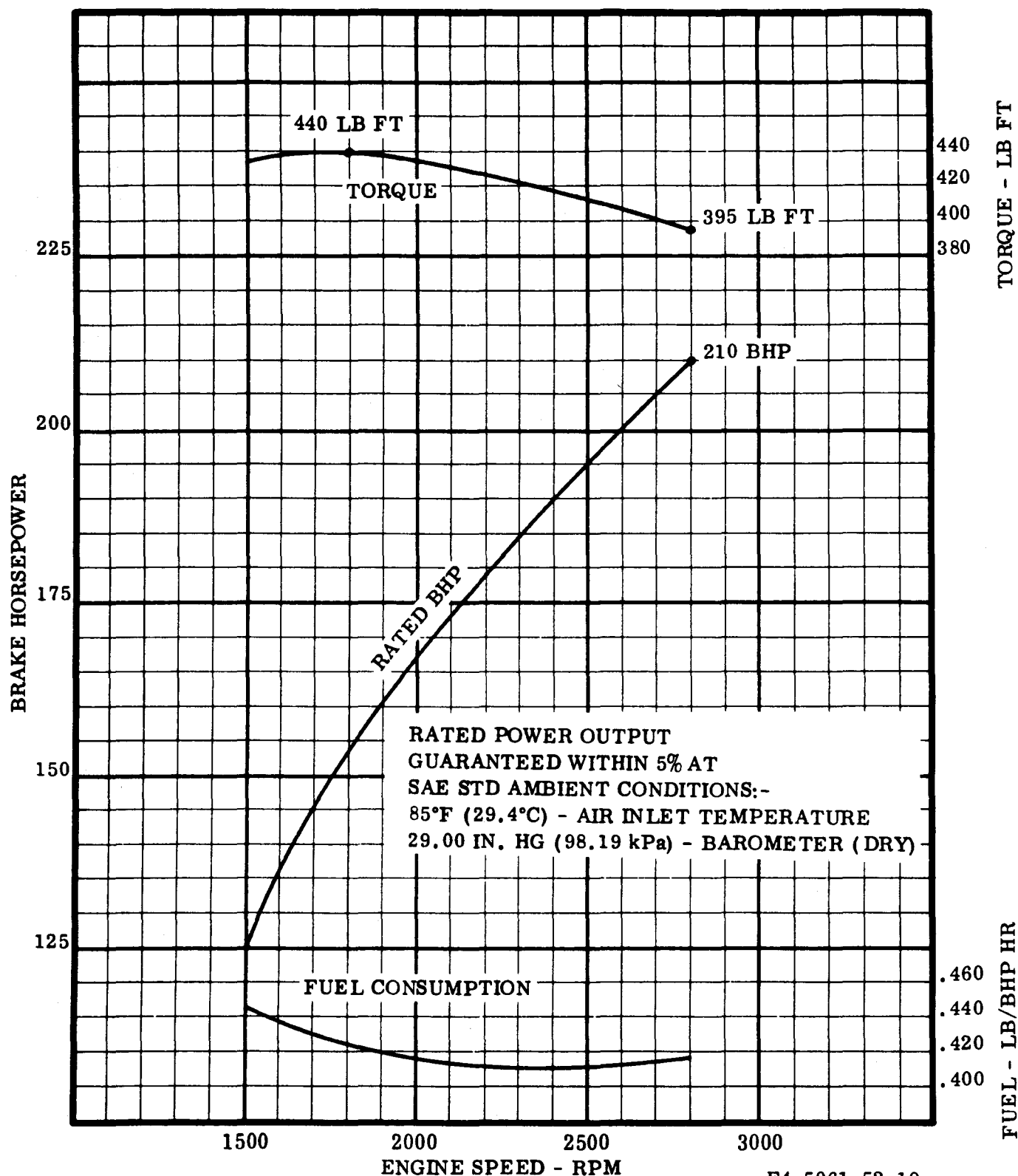
BASIC ENGINE
MODEL 6V-53N DIESEL
(4 VALVE HEAD)
N50 INJECTORS





Detroit Diesel Allison
Division of General Motors Corporation

BASIC ENGINE
MODEL 6V-53N DIESEL - AUTOMOTIVE
ADVANCED CAMSHAFT TIMING
C50 INJECTORS, 1.470 TIMING

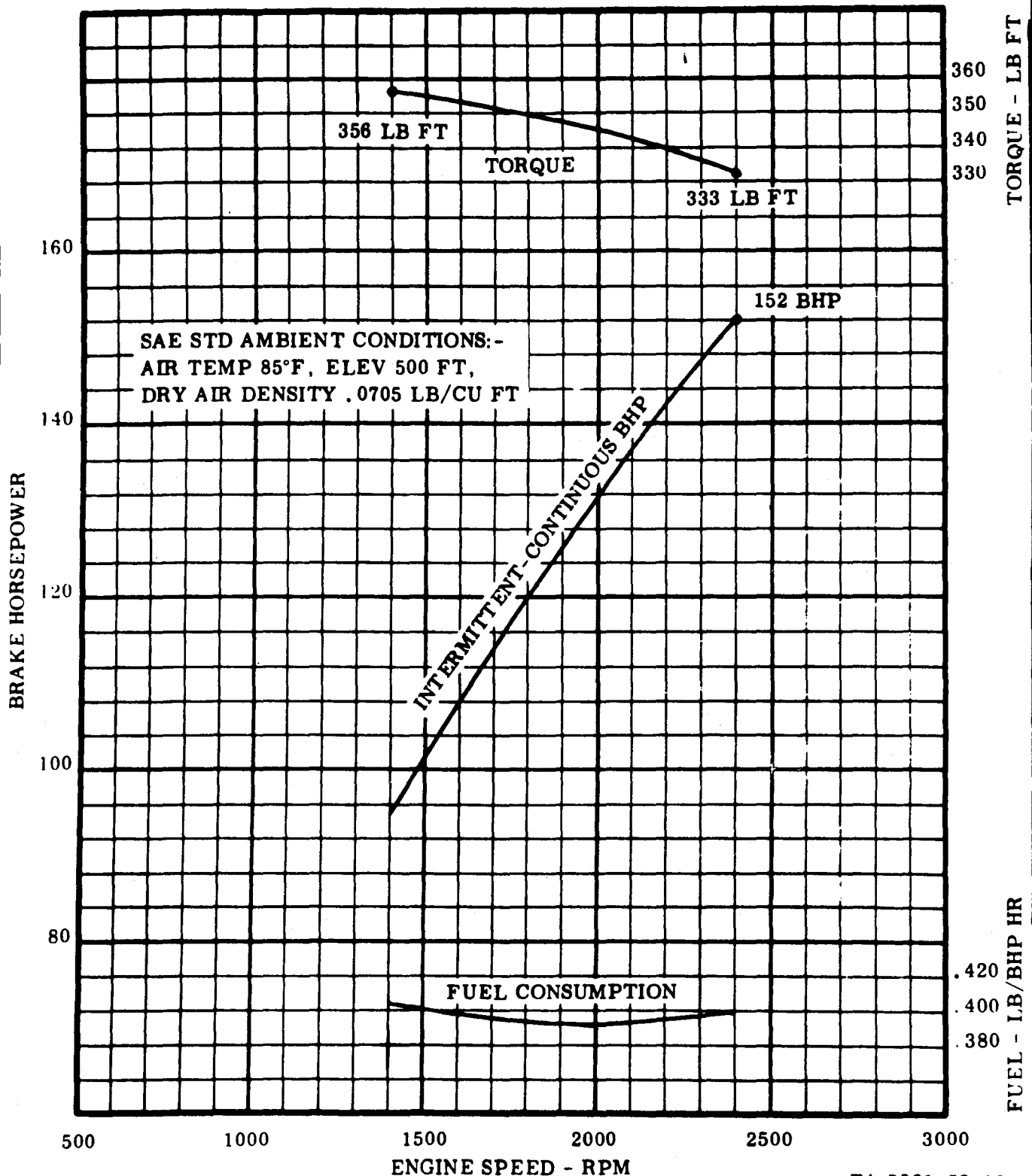




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

BASIC ENGINE
MODEL 6V-53N DIESEL
4-VALVE HEAD
N40 OR N45 INJECTORS





DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

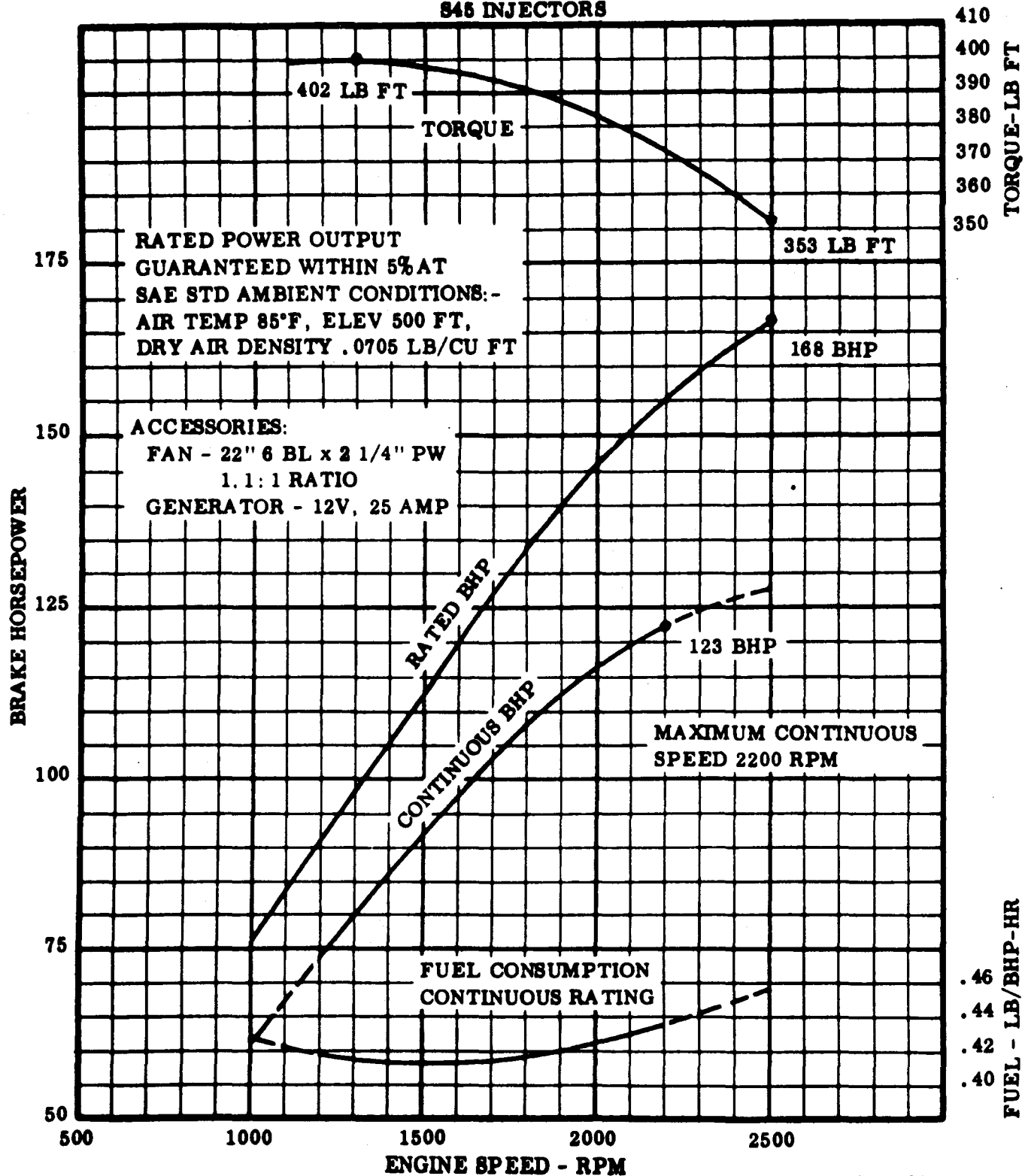
SERIES V-53

MODEL 5063-5200

(6V-53 4-VALVE HEAD)

PERFORMANCE WITH STANDARD EQUIPMENT

845 INJECTORS





DETROIT DIESEL ENGINE DIVISION

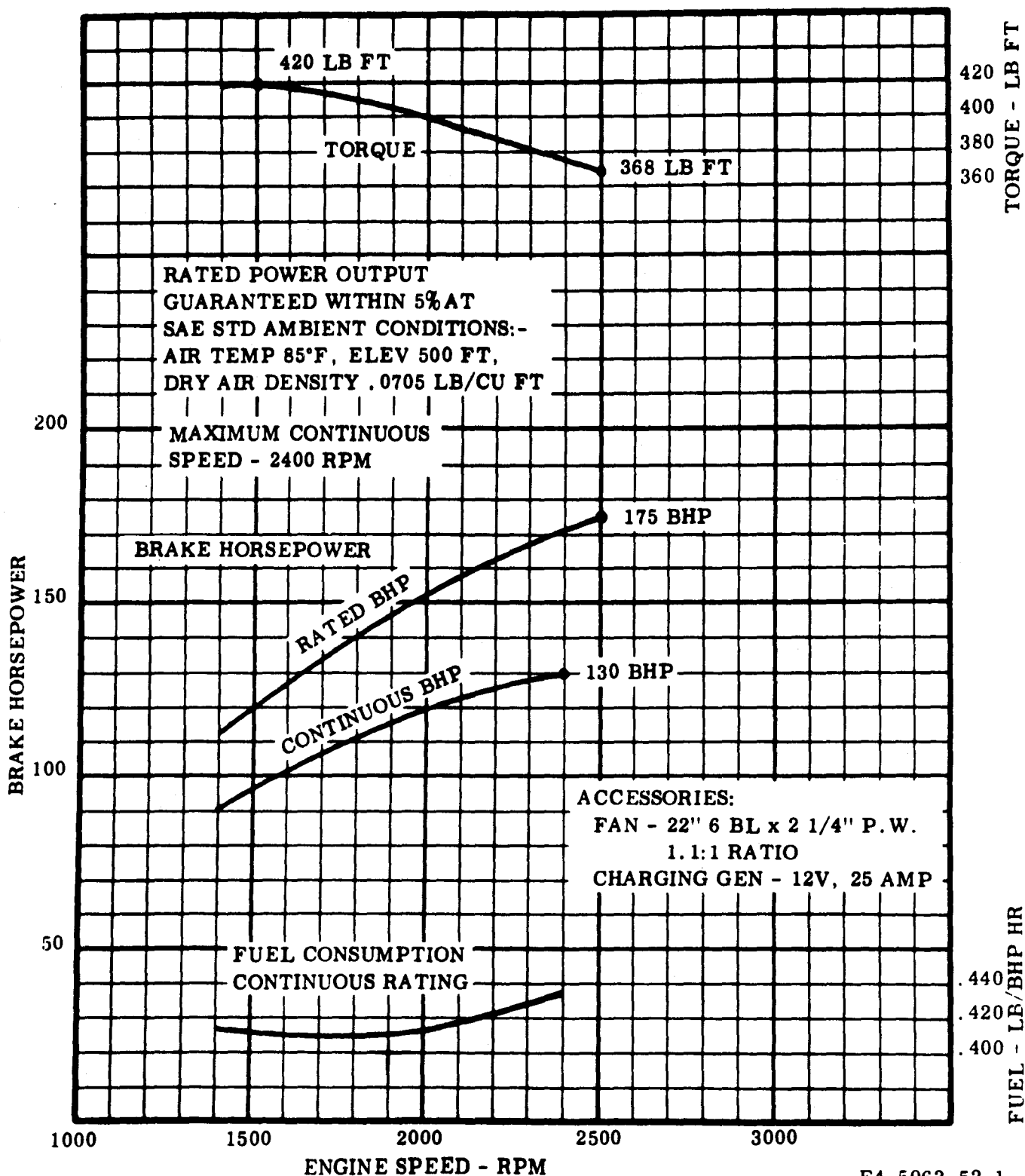
GENERAL MOTORS CORPORATION

SERIES 53N INDUSTRIAL

6V-53N (4V) ENGINE

PERFORMANCE WITH STANDARD EQUIPMENT

N45 INJECTORS

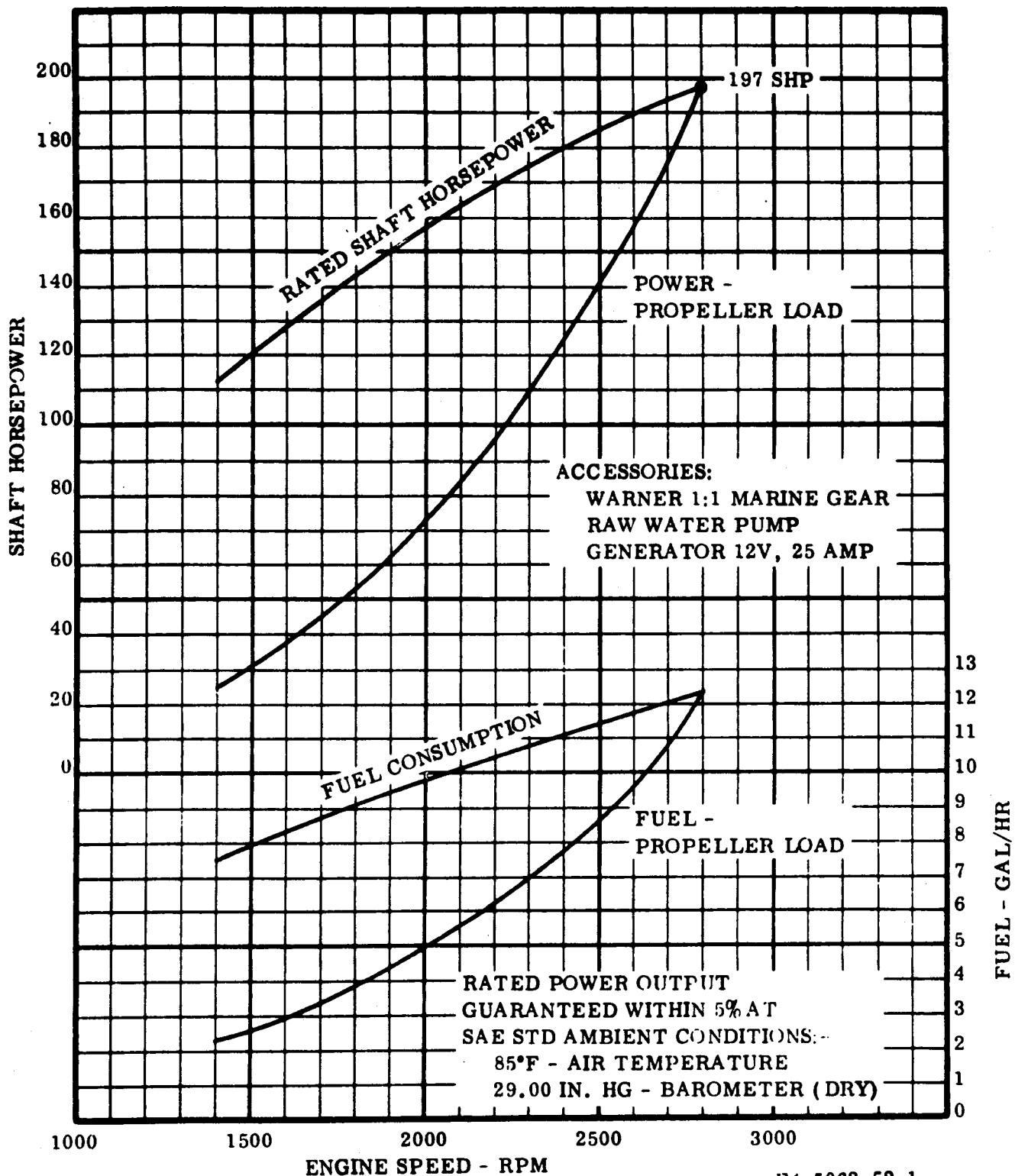




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

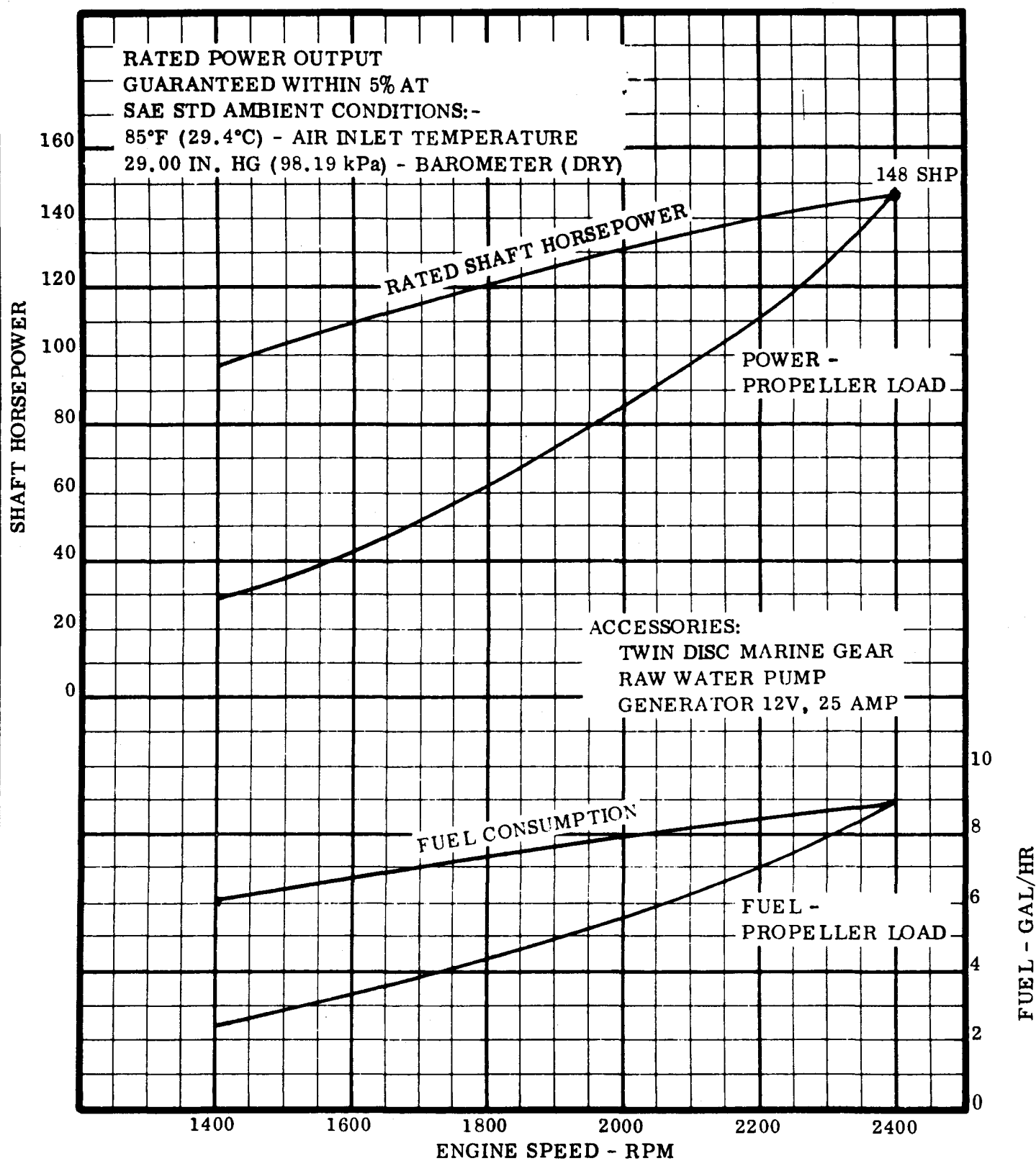
SERIES V53 MARINE
6V-53N PLEASURE CRAFT
N50 INJECTORS





Detroit Diesel Allison
Division of General Motors Corporation

SERIES V53
MARINE CONTINUOUS RATING
MODEL 6V-53N
N40 INJECTORS
(WORK BOAT)



E4-5062-52-2

Rev. 4-19-76



Detroit Diesel Allison
Division of General Motors Corporation

SERIES V53 MARINE
6V-53N CREW BOAT
N45 INJECTORS

