



Sales Tech
Data Book I
Vol. 2

Engine
Performance
Curves

Series 53 & 120

18SA0074-02

SALES TECHNICAL DATA BOOK REVISION



BOOK I

VOLUME 2

FORM 18SA0074-02



DETROIT DIESEL ALLISON • DIVISION OF GENERAL MOTORS CORPORATION • DETROIT, MICHIGAN, 48228

REVISION NO. 54

DATE July, 1978

Revision No. 54 consists of two new tabs and fifteen performance curves.
Please update your book as follows:

Tab- 53 & 53N Engine Performance

Tab- 3-53 (4) & N

Insert new tab 3-53T after curve E4-5032-52-1.

Insert curve E4-5031-32-1 dated 3-2-78 after tab 3-53T.

Tab- 4-53 (4) & N

Remove curve E4-5041-52-18 dated 2-1-74 and replace with E4-5041-52-18 dated 2-17-78.

Remove curve E4-5041-52-16 dated 2-1-74 and replace with E4-5041-52-16 dated 2-17-78.

Remove curve E4-5041-52-17 dated 2-1-74 and replace with E4-5041-52-17 dated 2-17-78.

Tab- 4-53T

Insert the following curves dated 3-6-78 after tab 4-53T:

E4-5041-32-16
E4-5041-32-4
E4-5041-32-9
E4-5041-32-3
E4-5041-32-10
E4-5041-32-15
E4-5041-32-6

Tab- 6V-53 & N

Remove curve E4-5061-52-20 dated 2-1-74 and replace with E4-5061-52-20 dated 2-17-78.

Remove curve E4-5061-52-18 dated 8-5-74 and replace with E4-5061-52-18 dated 2-17-78.

Remove curve E4-5061-52-19 dated 2-1-74 and replace with E4-5061-52-19 dated 3-14-78.

Insert new tab 6V-53T after curve E4-5062-52-3.

Tab- V-149 Engine Performance

Tab- 16V-149T

Remove curve E4-9161-32-11 dated 3-24-77 and replace with E4-9161-32-11 dated 1-26-78.

After updating your book, be sure to "X" box 54 on the yellow check-off sheet and add the date 7/78. If additional copies of this revision are required, use the symbol 18SA30254. Revisions will be furnished if they are available. Send requests to Detroit Diesel Allison, 13400 West Outer Drive, Detroit, MI. 48228, Attention: Publications Department, Speed Code T10H.

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Early Sales Tech Data Books contained yellow "Business Reply Cards" which book holders were asked to complete and mail when the books were received. These cards formed the basis of a mailing list DDA used for sending out revisions.

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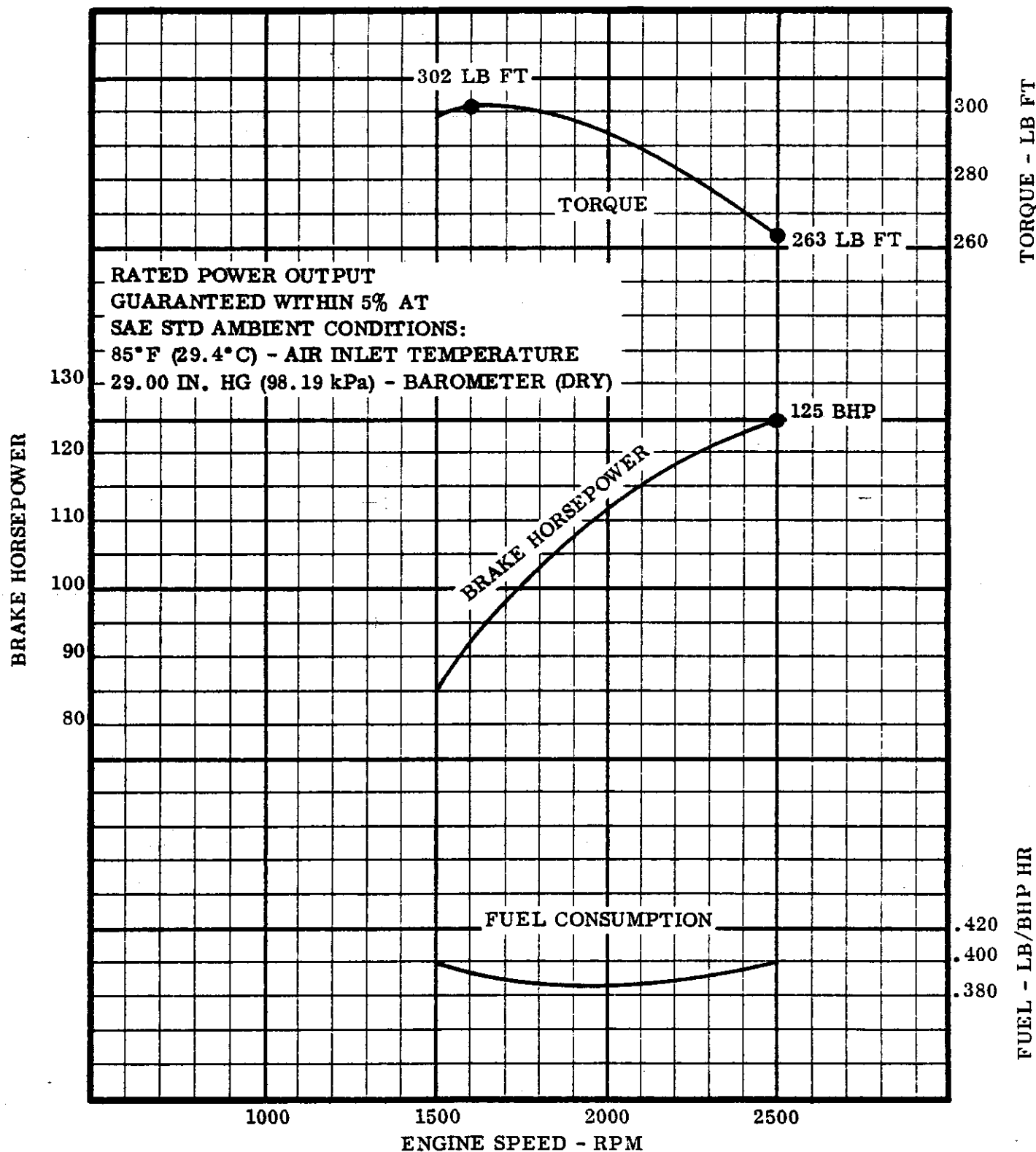
Book holders who have early Sales Tech Data Books containing yellow "Business Reply Cards" should mail these cards in immediately so that their names can be added to the supplement mailing list.

NOTE: Receipt of these cards does not imply that DDA can provide past updates, since some revisions are no longer available.



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.)



ENGINEERING-TECHNICAL DATA DEPT.

E4-5031-32-1

3-2-78

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)	
Width - in. (mm)	
Height - in. (mm)	
Weight - lbs. (kg)	

Technical Engine Specifications:

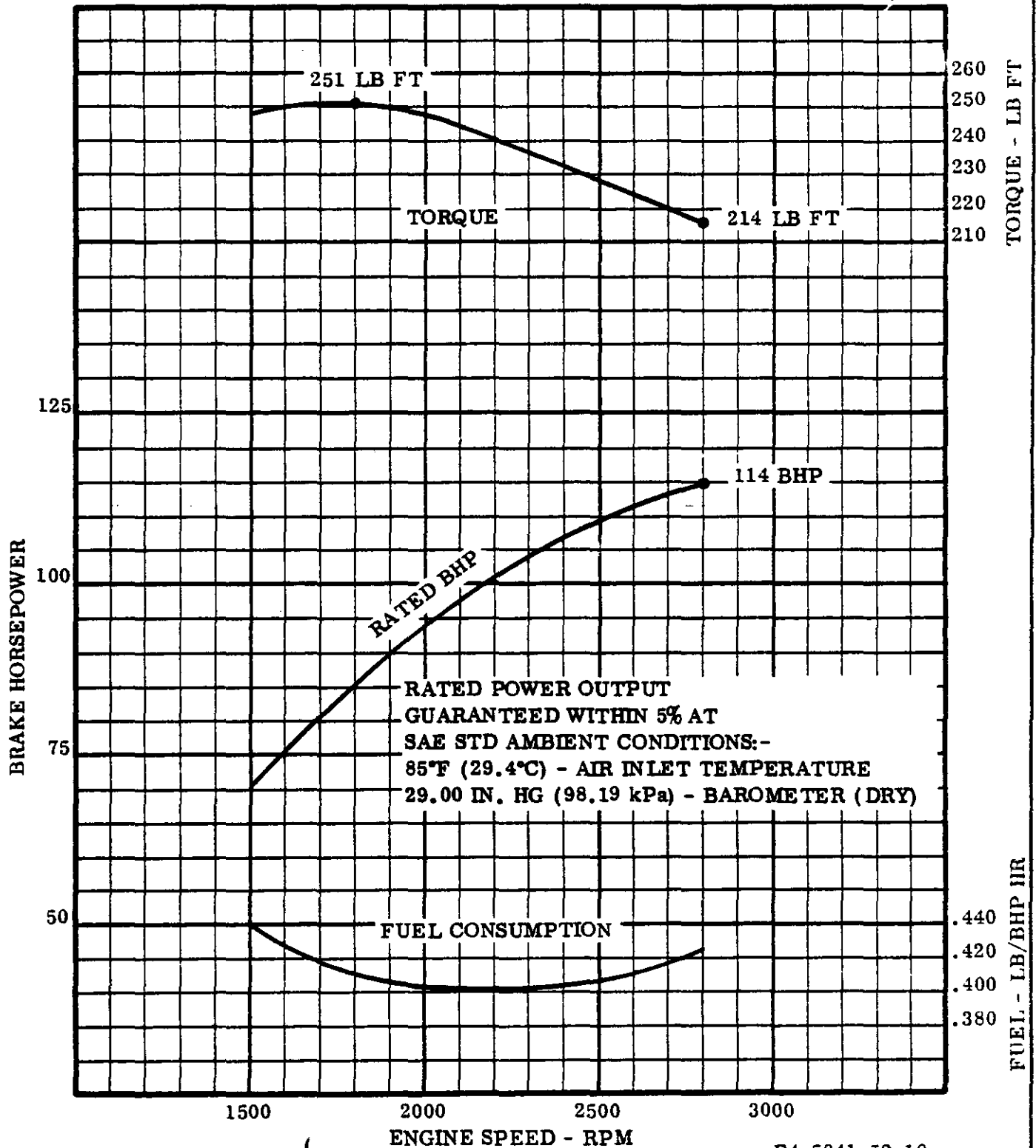
Injector	5A60
Engine speed - RPM	2500
Brake horsepower - BHP (kW)	125 (93)
BMEP - PSI (kPa)	125 (862)
Peak torque LB FT (N·m) @ RPM	302 (409 @ 1600)
Fuel consumption - LB/HR (kg/HR)	50.0 (22.7)
Specific fuel cons. - LB/BHP HR (g/kW h)	.400 (243)
Fuel pump suction at pump inlet	
Maximum - in. Hg (kPa)	
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 4-53N DIESEL - AUTOMOTIVE
ADVANCED CAMSHAFT TIMING
C40 INJECTORS, 1.470 TIMING

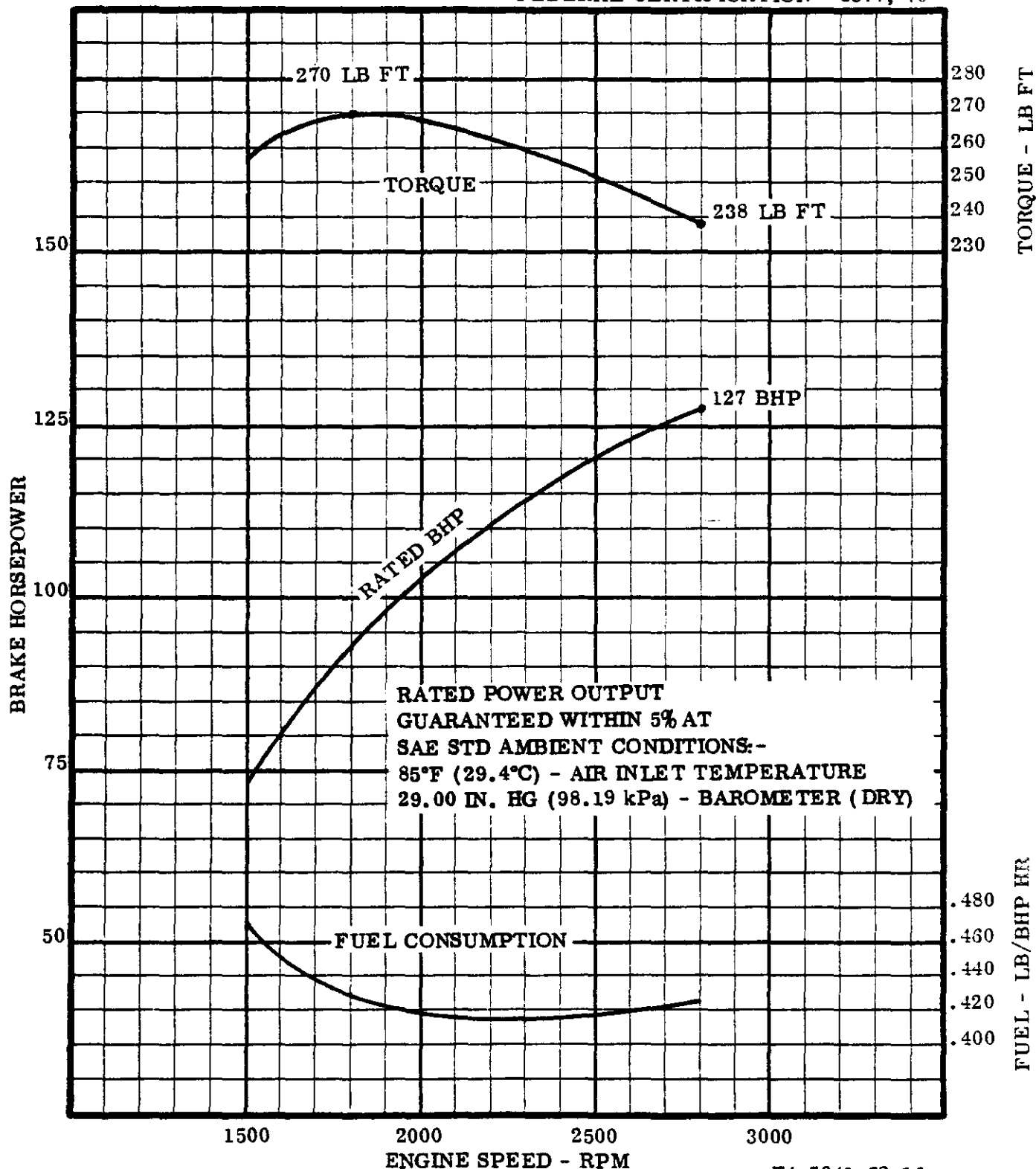
FEDERAL CERTIFICATION - 1977, 78





Detroit Diesel Allison
Division of General Motors Corporation

BASIC ENGINE
MODEL 4-53N DIESEL - AUTOMOTIVE
ADVANCED CAMSHAFT TIMING
C45 INJECTORS, 1.470 TIMING
FEDERAL CERTIFICATION - 1977, 78

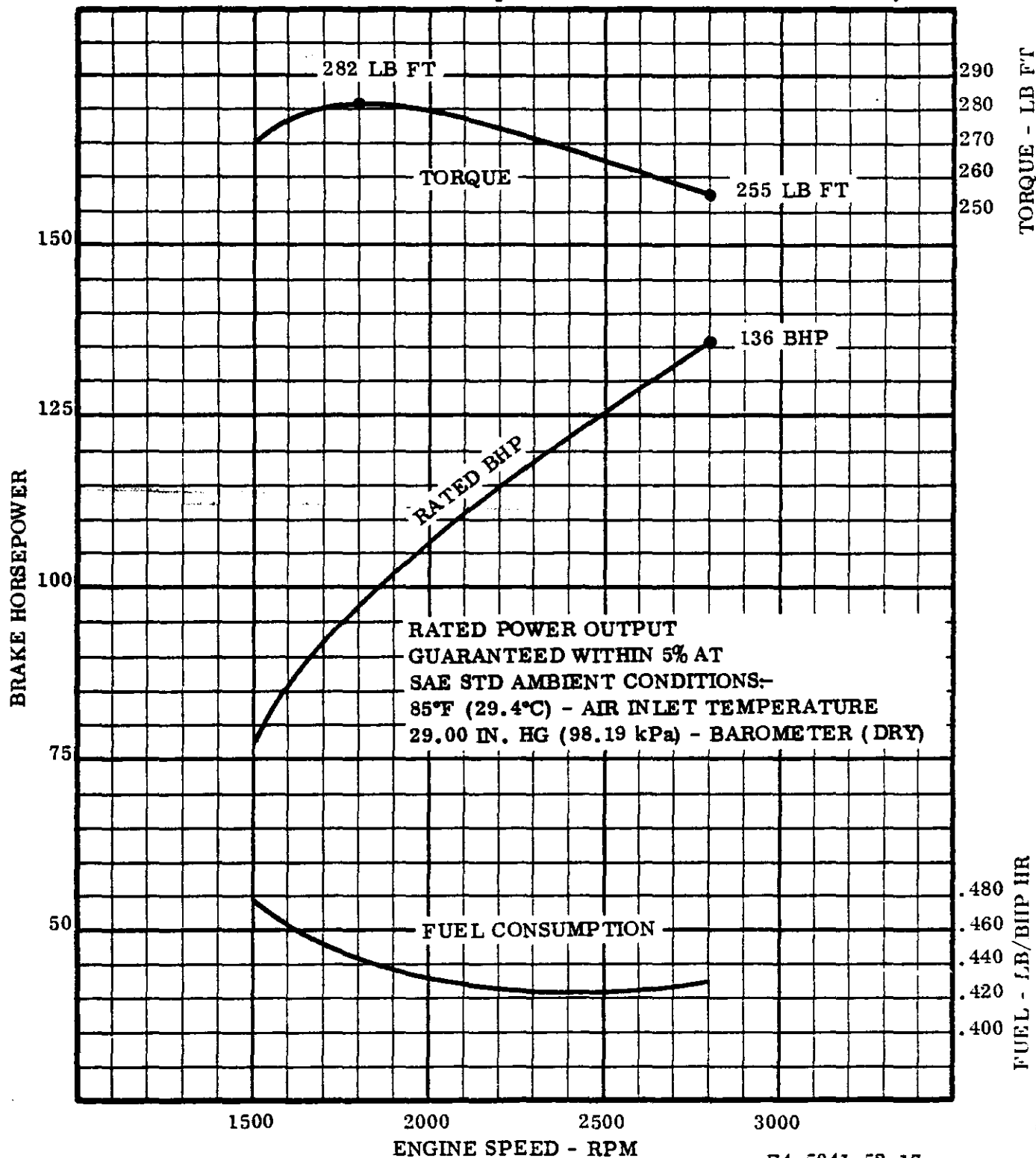




Detroit Diesel Allison
Division of General Motors Corporation

BASIC ENGINE
MODEL 4-53N DIESEL - AUTOMOTIVE
ADVANCED CAMSHAFT TIMING
C50 INJECTORS, 1.470 TIMING

FEDERAL CERTIFICATION - 1977, 78

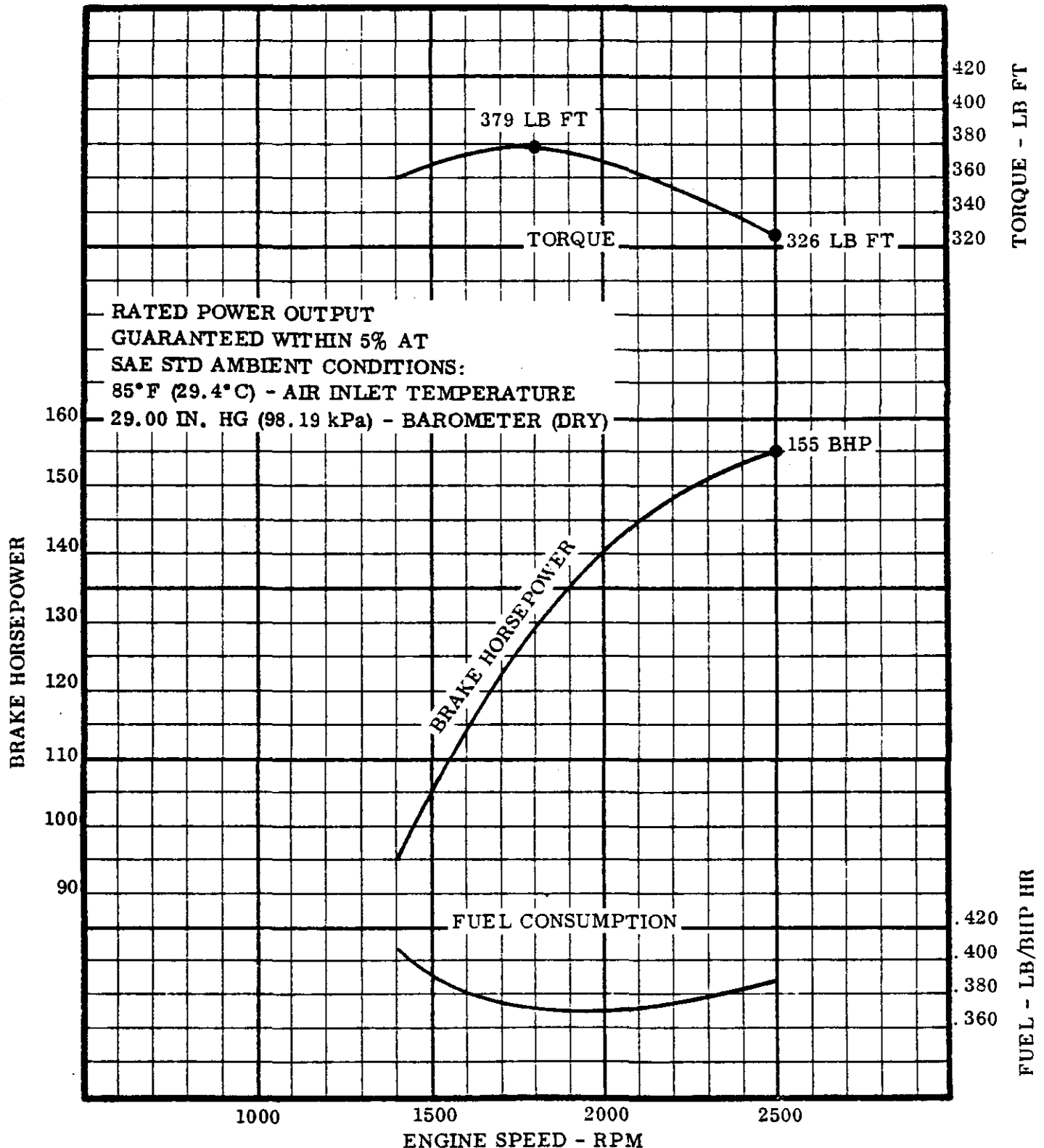




Detroit Diesel Allison
Division of General Motors Corporation

BASIC ENGINE
MODEL 4L-53T DIESEL
5A55 INJECTORS 1.496 TIMING
T04B98 TURBOCHARGER (.96 A/R HSG.)

FEDERAL CERTIFICATION - 1978



4L-53T 155 BHP ENGINE SPECIFICATION
FEDERAL CERTIFICATION - 1978

General Engine Description:

Model	5047-5340
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:

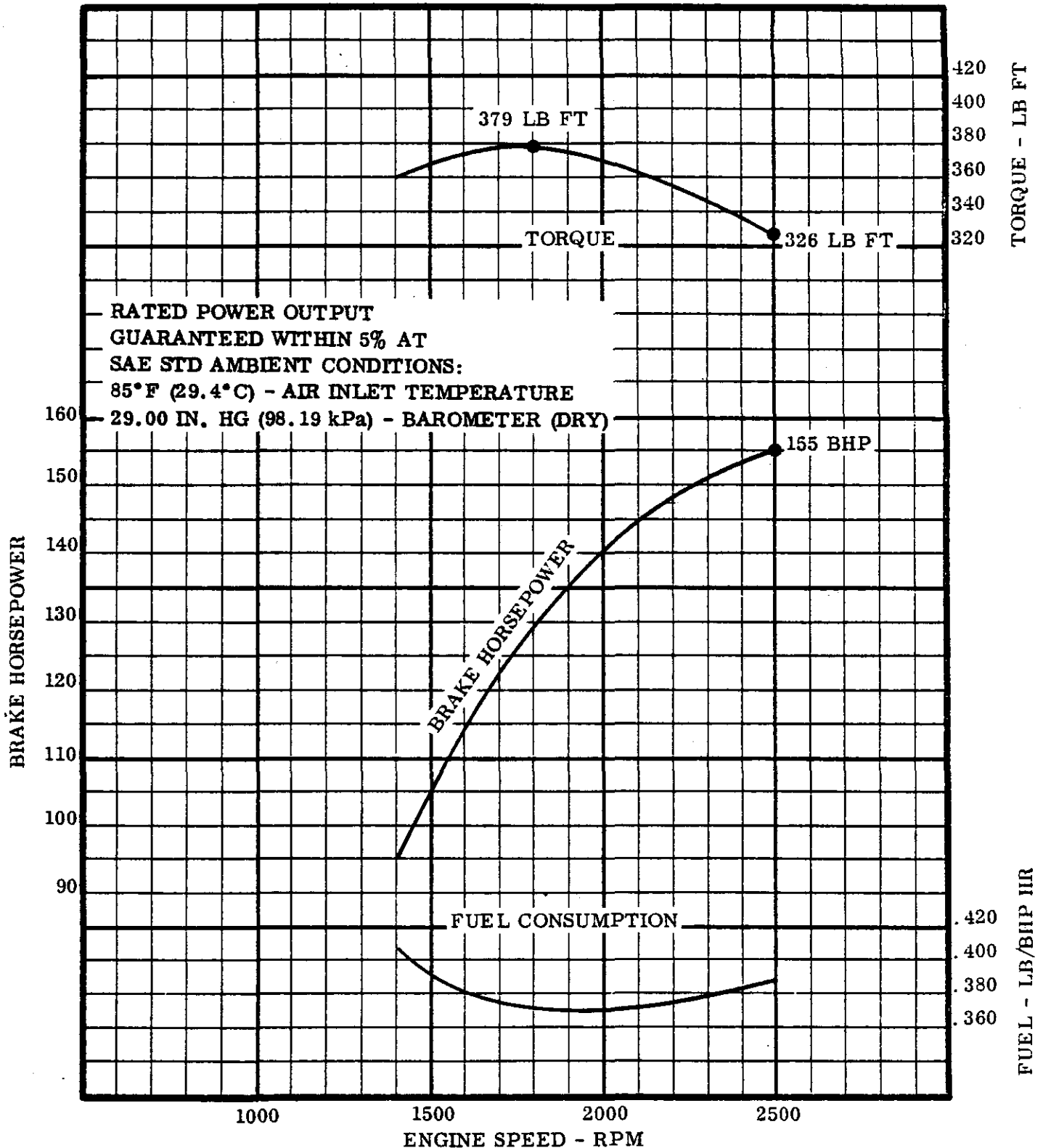
Injector	5A55
Engine speed - RPM	2500
Brake horsepower - BHP (kW)	155 (116)
BMEP - PSI (kPa)	116 (799.82)
Peak torque LB FT (N·m) @ RPM	379 (514) @ 1800
Fuel consumption - LB/HR (kg/HR)	60.8 (27.6)
Specific fuel cons. - LB/BHP HR (g/kW HR)	.392 (238)
Fuel pump suction at pump inlet	
Maximum - in. Hg (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 (401.6)
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)	195 (90.6)
Heat rejection - BTU/HP MIN. (W/kW)	27 (636)
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-53TC DIESEL - AUTOMOTIVE
5A55 INJECTORS 1.496 TIMING
T04B98 TURBOCHARGER (.96 A/R HSG.)

CALIFORNIA CERTIFICATION - 1978



4-53TC 155 BHP ENGINE SPECIFICATION
CALIFORNIA CERTIFICATION - 1978

General Engine Description:

Model	5047-5340
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)

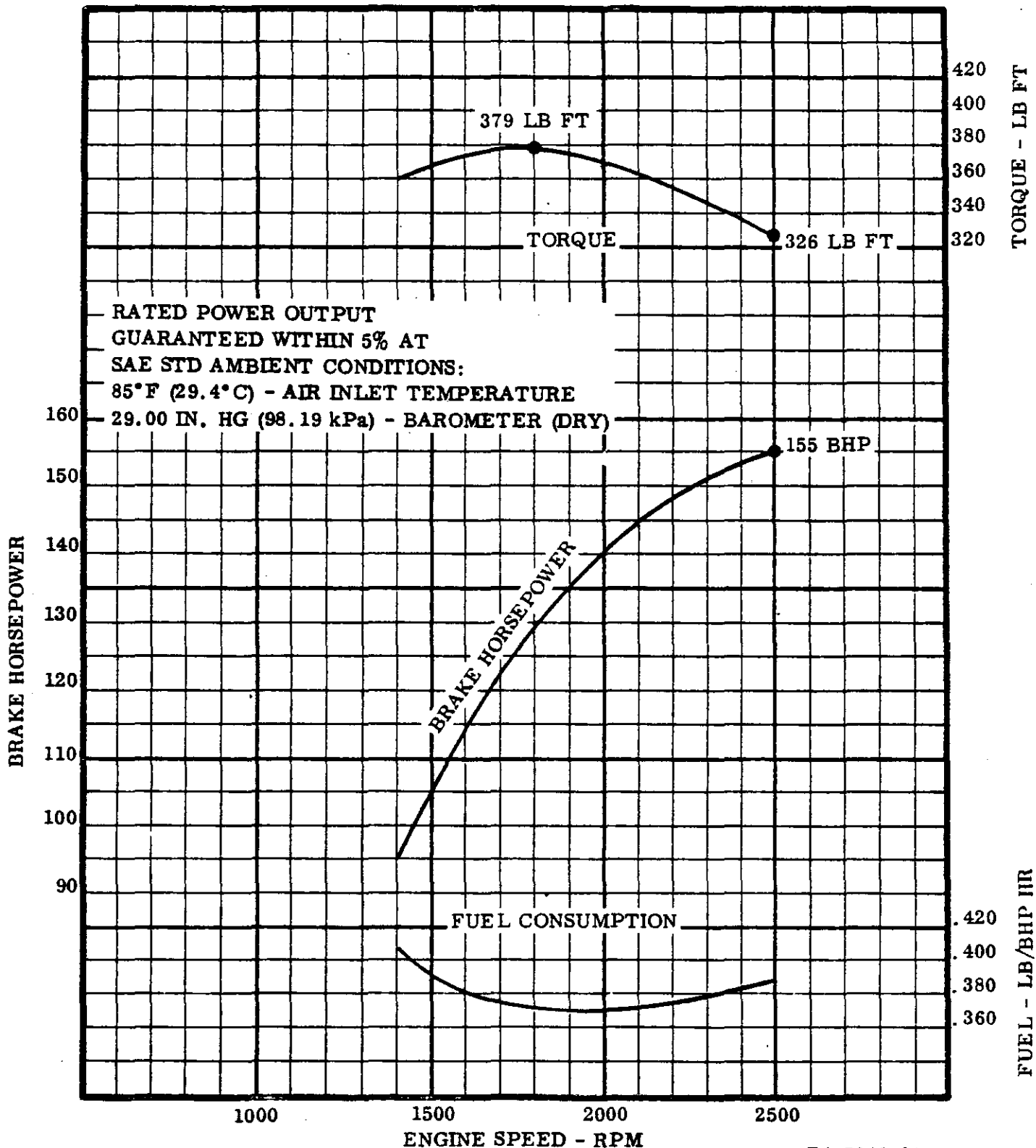
Technical Engine Specifications:

Injector	5A55
Engine speed - RPM	2500
Brake horsepower - BHP (kW)	155 (116)
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 (401.6)
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)	195 (90.6)
Heat rejection - BTU/HP MIN. (W/kW)	27 (636)
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
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)	40 (1016)
Width - in. (mm)	32 (813)
Height - in. (mm)	37 (940)
Weight - lbs. (kg)	1300 (590)

Technical Engine Specifications:

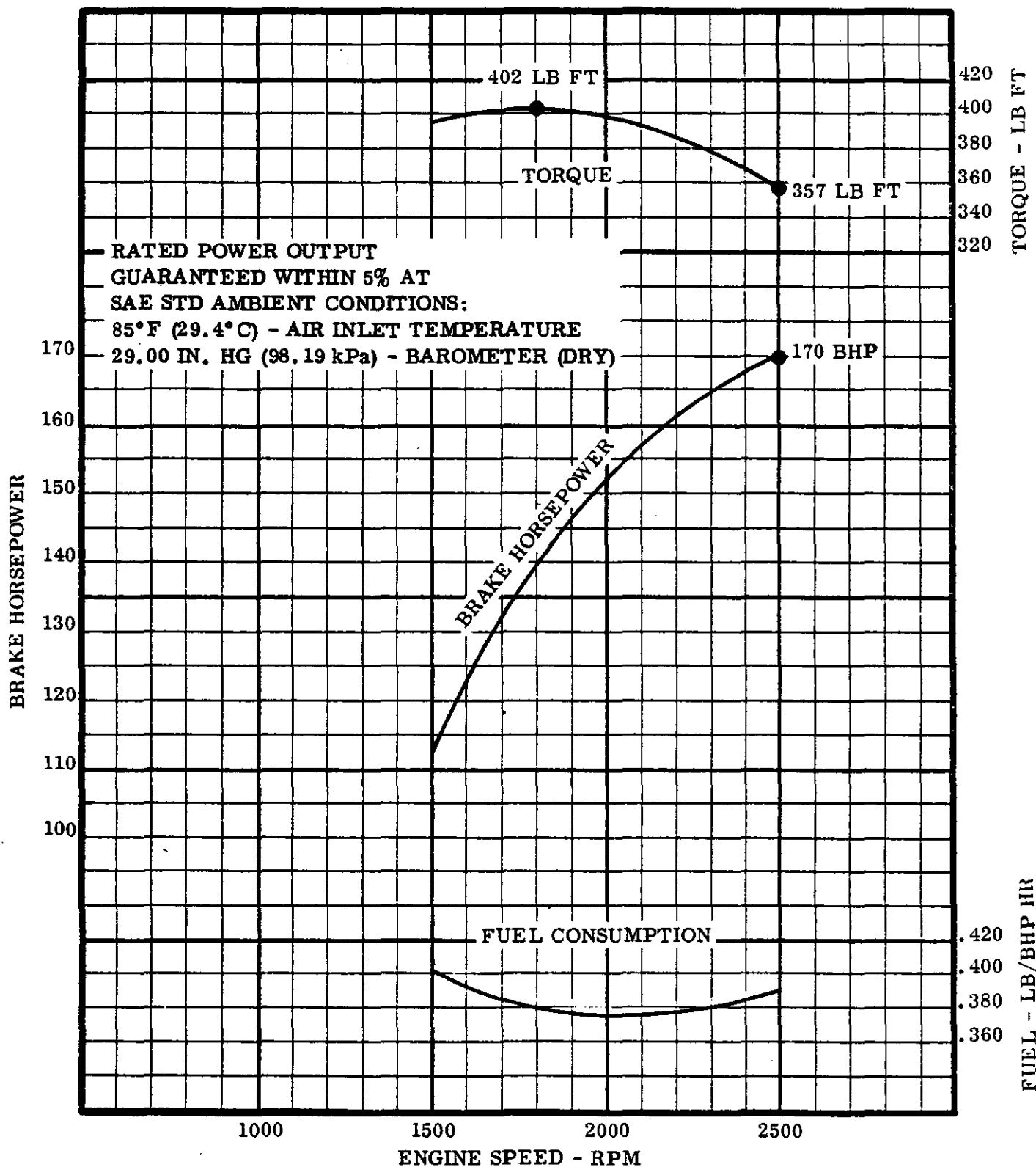
Injector	5A55
Engine speed - RPM	2500
Brake horsepower - BHP (kW)	155
BMEP - PSI (kPa)	116 (799.82)
Peak torque LB FT (N·m) @ RPM	379 (514) @ 1800
Fuel consumption - LB/HR (kg/HR)	60.8 (27.6)
Specific fuel cons. - LB/BHP HR (g/kW HR)	.392 (238)
Fuel pump suction at pump inlet	
Maximum - in. Hg (kPa)	
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 - AUTOMOTIVE
5A60 INJECTORS 1.496 TIMING
TO4B98 TURBOCHARGER (.96 A/R HSG.)

FEDERAL CERTIFICATION - 1978



4-53T 170 BHP ENGINE SPECIFICATION
FEDERAL CERTIFICATION - 1978

General Engine Specification:

Model	5047-5340
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)	40 (1016)
Width - in. (mm)	32 (813)
Height - in. (mm)	37 (940)
Weight - lbs. (kg)	1300 (590)

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)
Air flow - 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)	195 (90.6)
Heat rejection - BTU/HP Min. (W/kw)	27 (636)
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)

E4-5041-32-3

Rev. 3-6-78

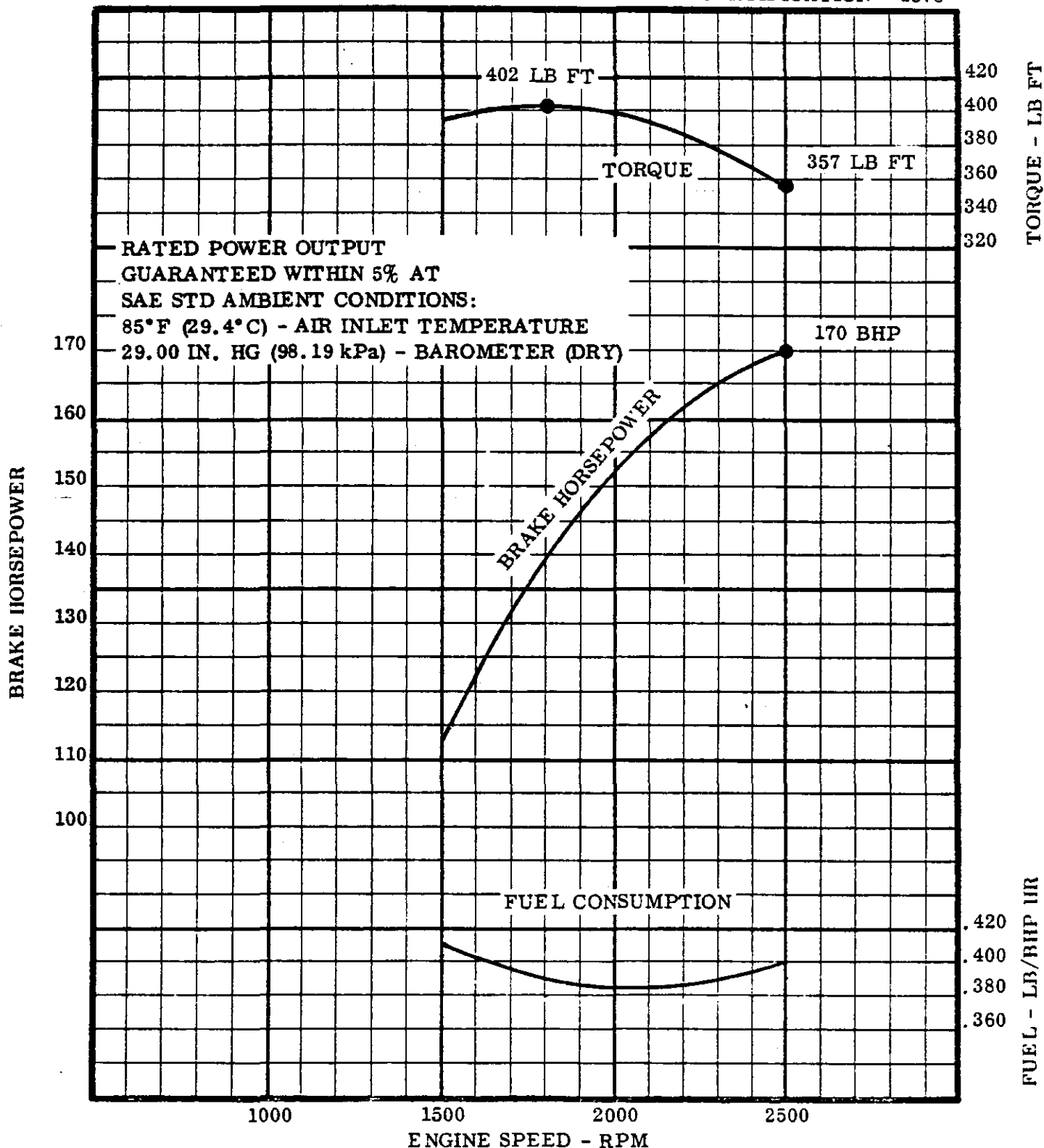
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Detroit Diesel Allison
Division of General Motors Corporation

BASIC ENGINE
4L-53TC DIESEL - AUTOMOTIVE
5A60 INJECTORS 1.508 TIMING
T04B98 TURBOCHARGER (.96 A/R HSG.)

CALIFORNIA CERTIFICATION - 1978



4-53TC 170 BHP ENGINE SPECIFICATION
CALIFORNIA CERTIFICATION - 1978

General Engine Description:

Model	5047-5340
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	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)	68.0 (30.8)
Specific fuel cons. - LB/BHP HR (g/kW HR)	.400 (243)
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.)	620 (17.56)
Airbox pressure, Min. - in. Hg (kPa)	41 (138.83)
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)
Exh. temperature - °F (°C)	800 (426.6)
Exh. flow - CFM (m ³ /min.)	1435 (40.64)
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)	195 (90.6)
Heat rejection - BTU/HP Min. (W/kW)	29 (683)
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)

E4-5041-32-10

Rev. 3-6-78

Sheet 2 of 2



PERFORMANCE GRAPH

SAE STD AMBIENT CONDITIONS:
 85°F (29.4°C) - AIR INLET TEMPERATURE
 29.00 IN. HG (98.19 kPa) - BAROMETER (DRY)

Legend:
 — RATED POWER OUTPUT
 — GUARANTEED WITHIN 5% AT

ENGINE SPEED - RPM	TORQUE - LB FT	BRAKE HORSEPOWER - BHP	FUEL CONSUMPTION - LB/BHP HR
1500	~395	~110	~405
1750	402	~135	~385
2000	~395	~150	~380
2500	357	170	~390

E4-5041-32-15
Rev. 3-6-78

4L-53T170 BHP ENGINE SPECIFICATION

General Engine Specification:

Model	5047-5340
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)	40 (1016)
Width - in. (mm)	32 (813)
Height - in. (mm)	37 (940)
Weight - lbs. (kg)	1300 (590)

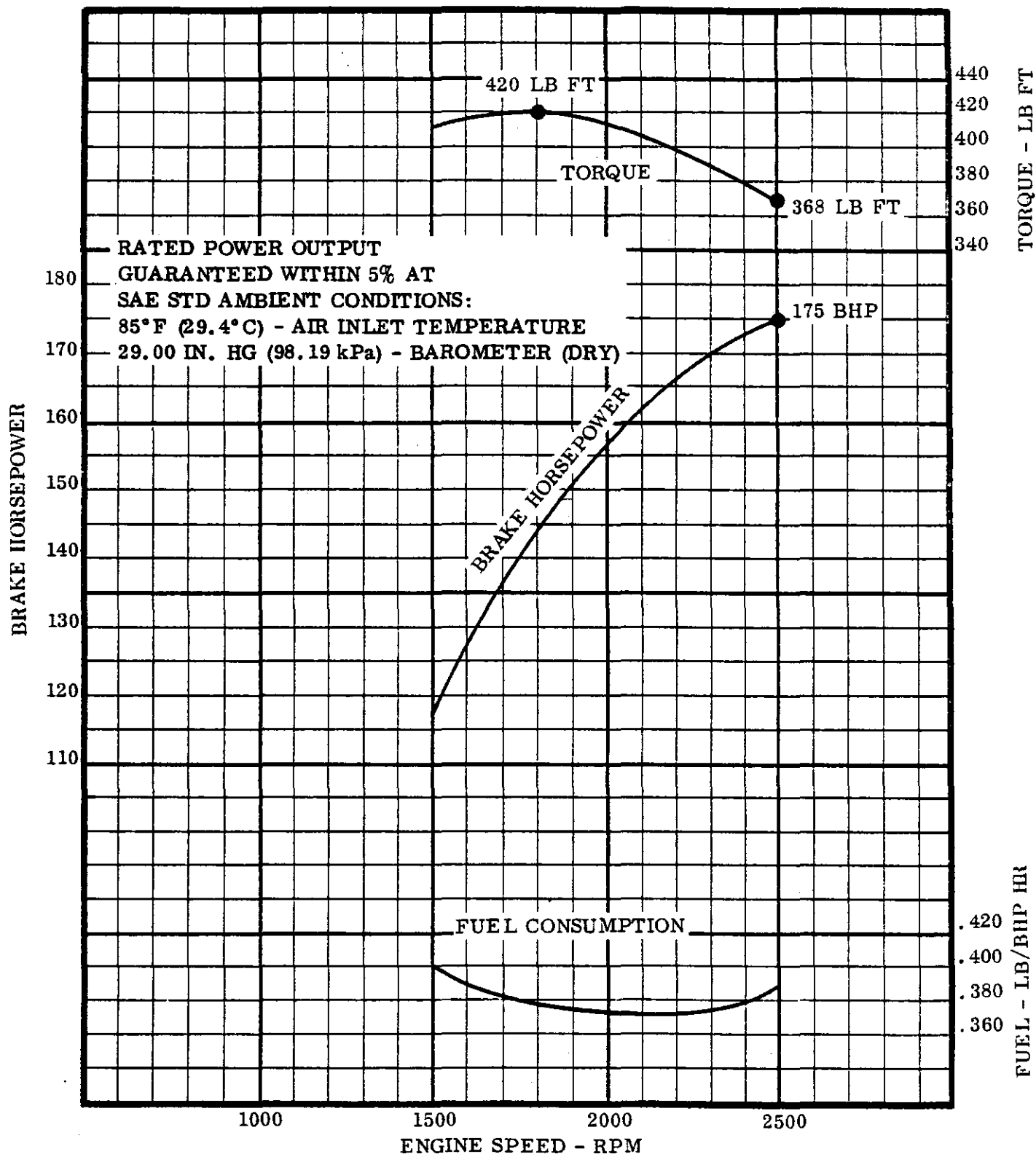
Technical Engine Specifications:

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)	825 (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

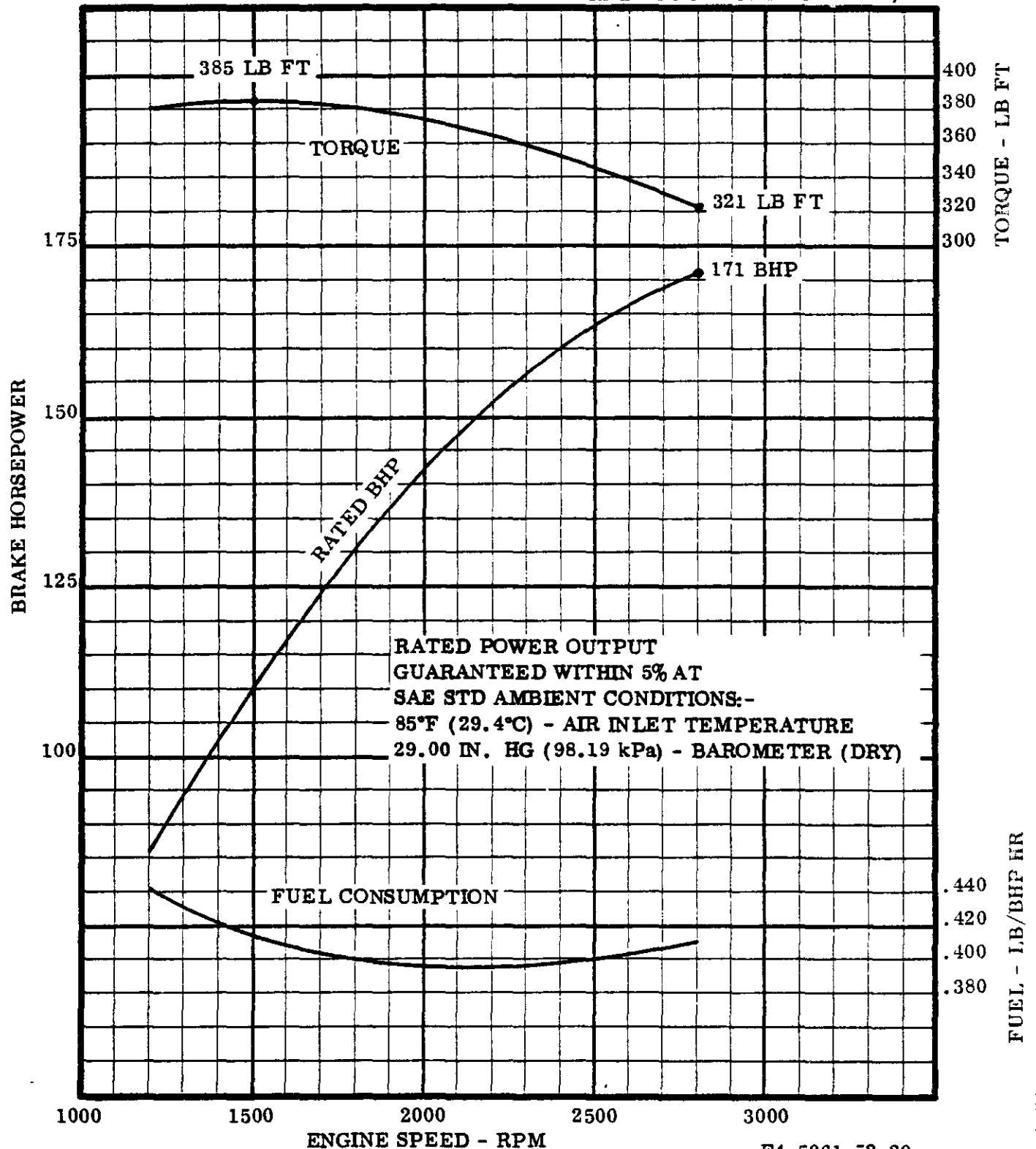
Rev. 3-6-78

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

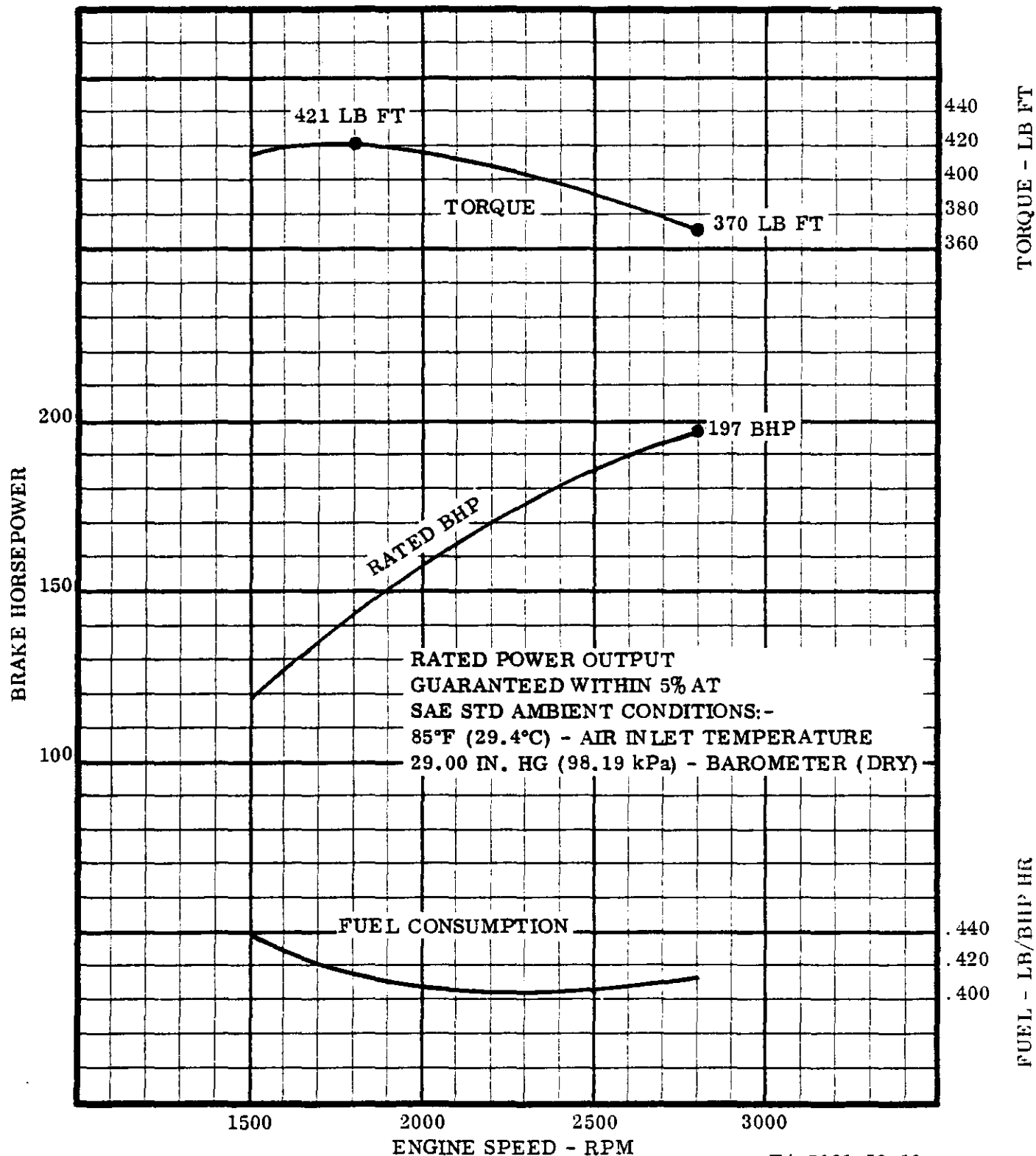




Detroit Diesel Allison
Division of General Motors Corporation

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

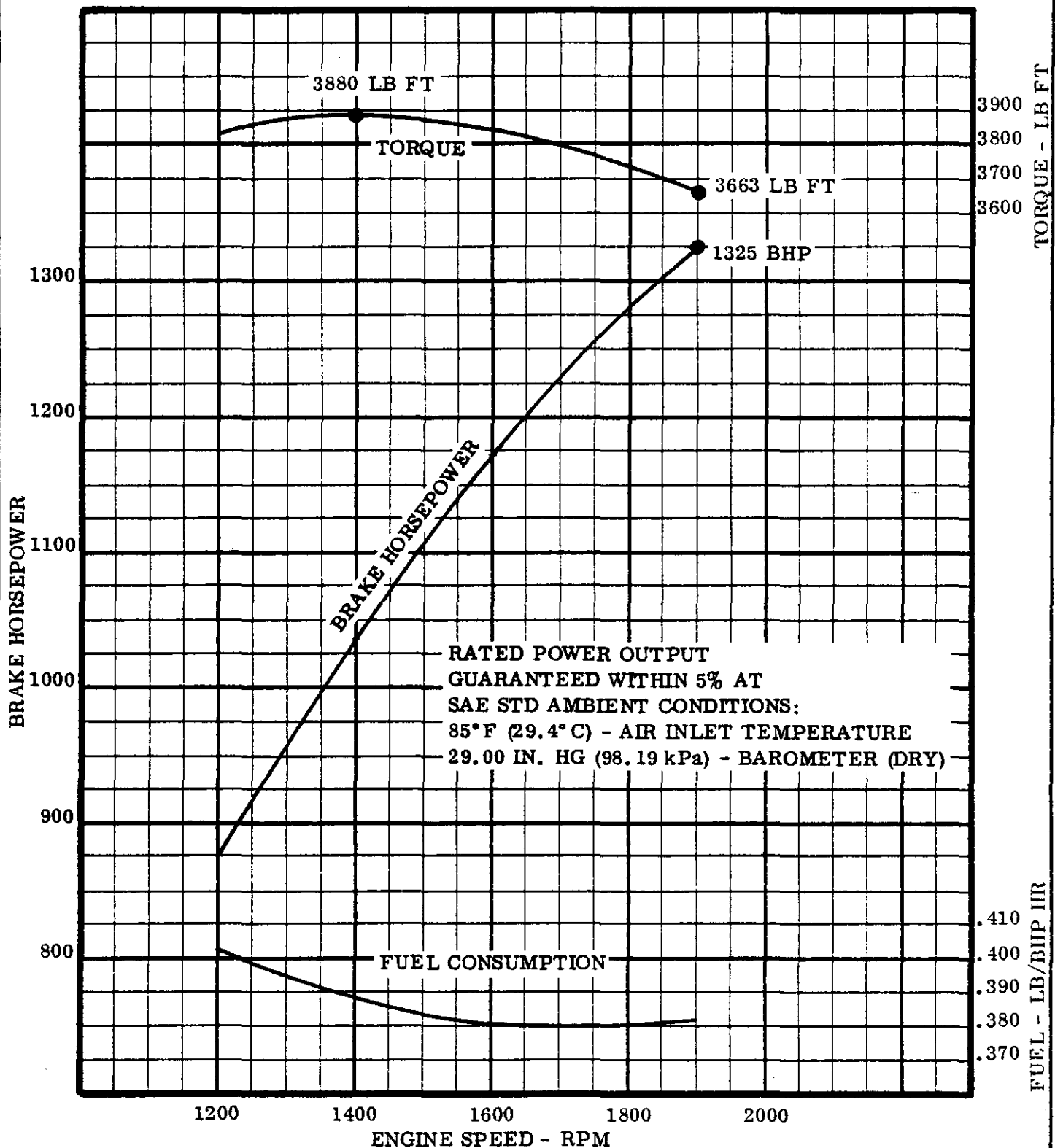
FEDERAL CERTIFICATION - 1977, 78





Detroit Diesel Allison
Division of General Motors Corporation

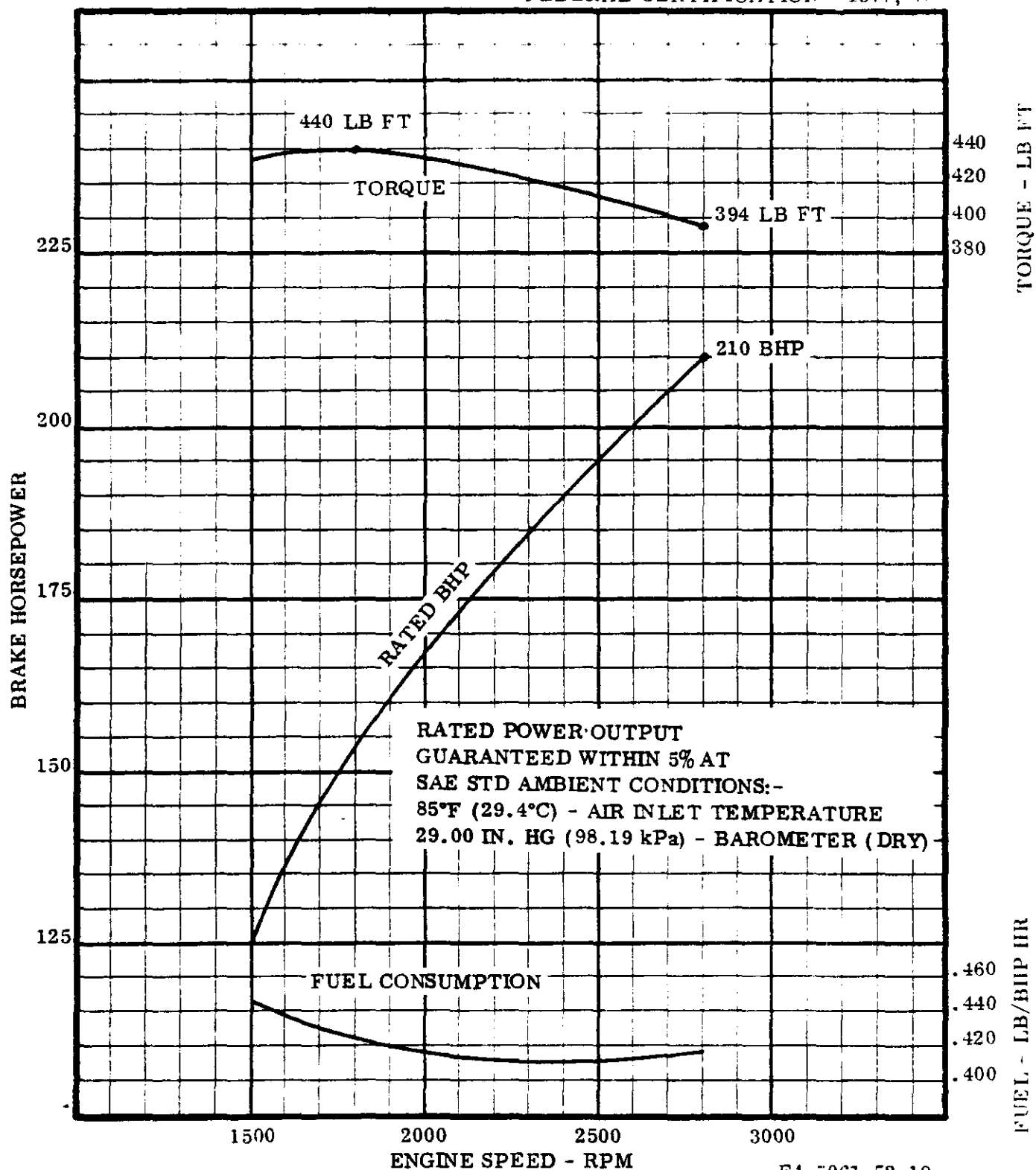
BASIC ENGINE
MODEL 16V-149T DIESEL
150 INJECTORS





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



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, 48226
IN CANADA GENERAL MOTORS DIESEL LIMITED ■ LONDON, ONTARIO

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

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47 ☒ 10/71

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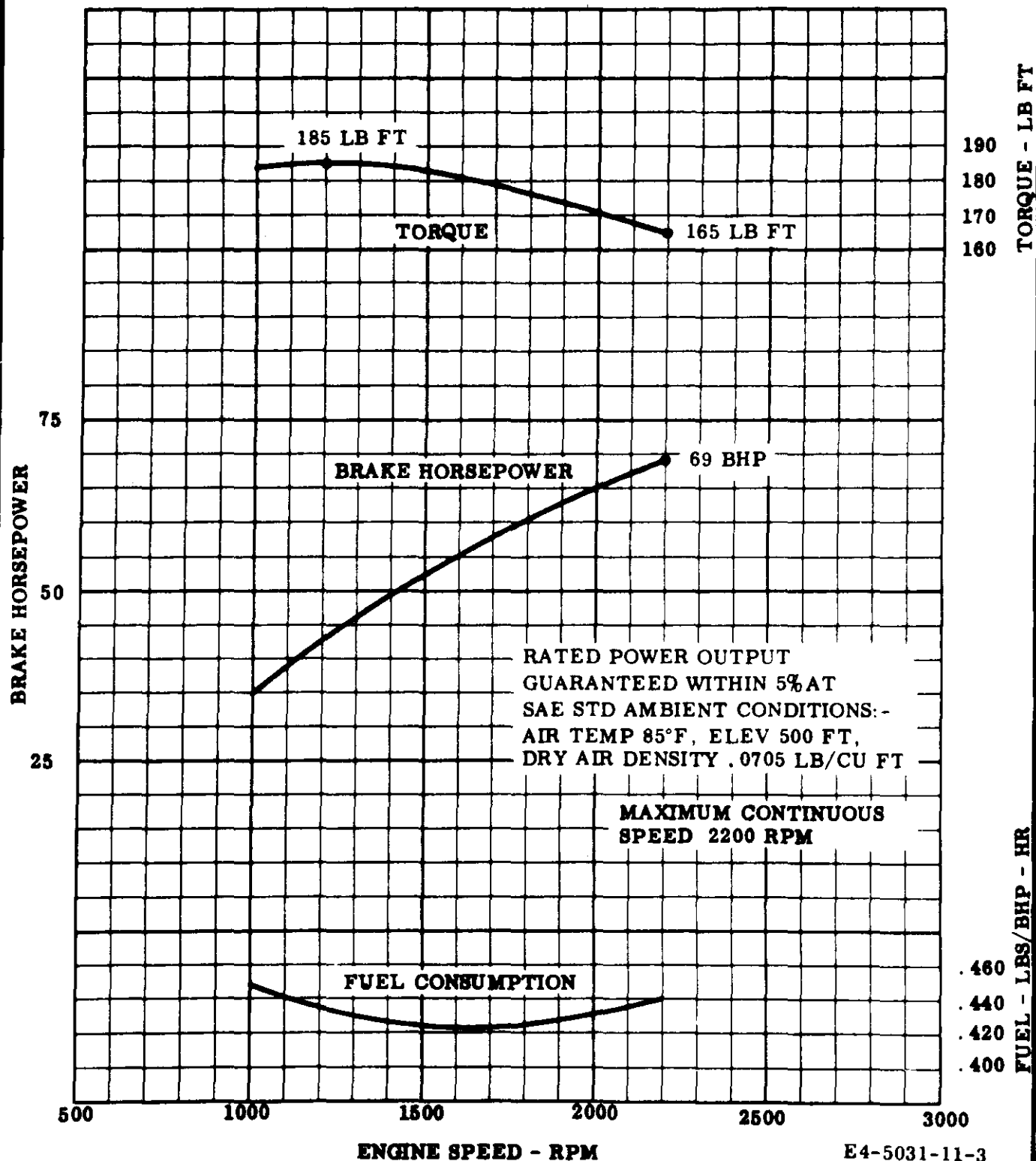
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DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

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

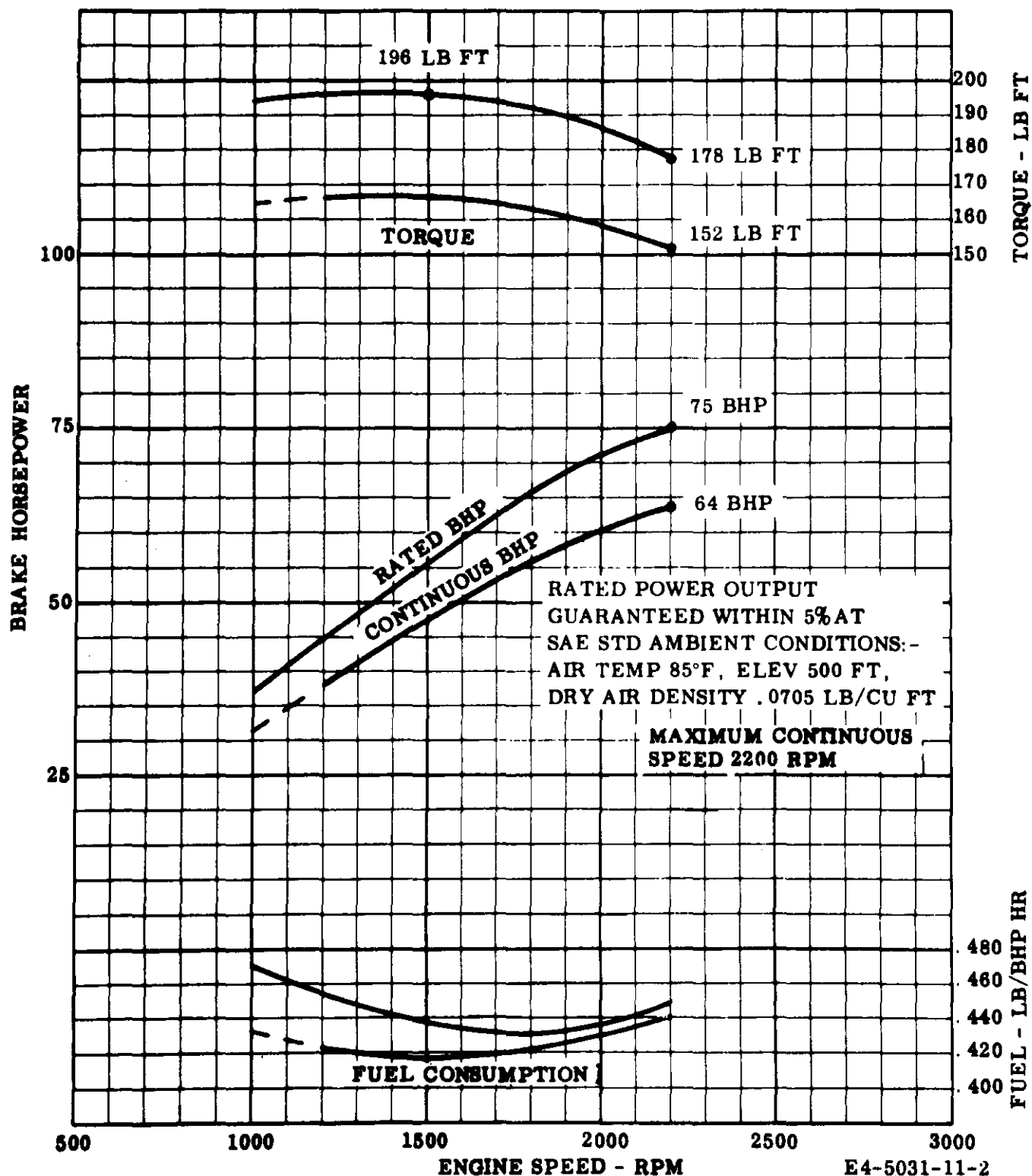




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

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

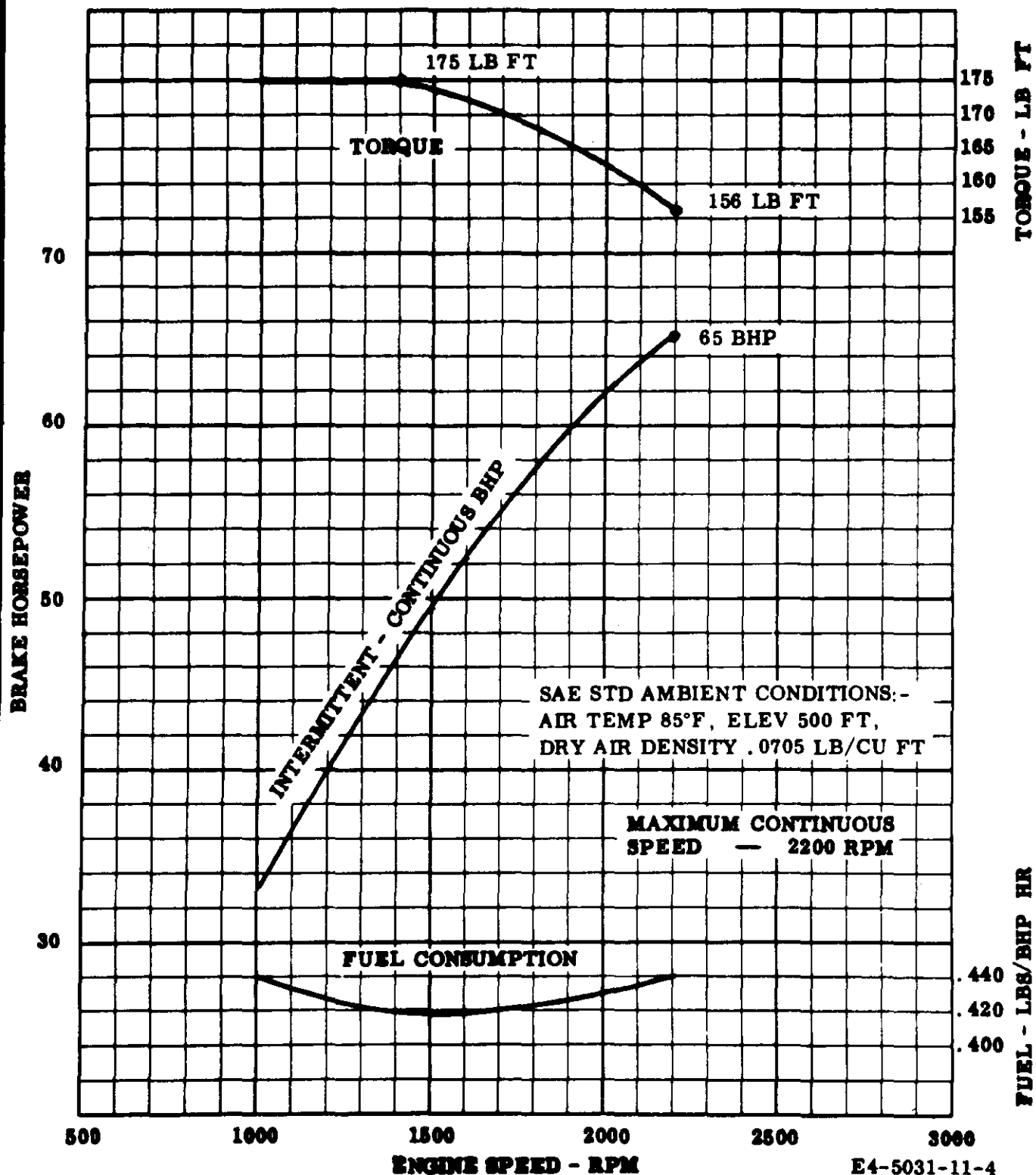




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

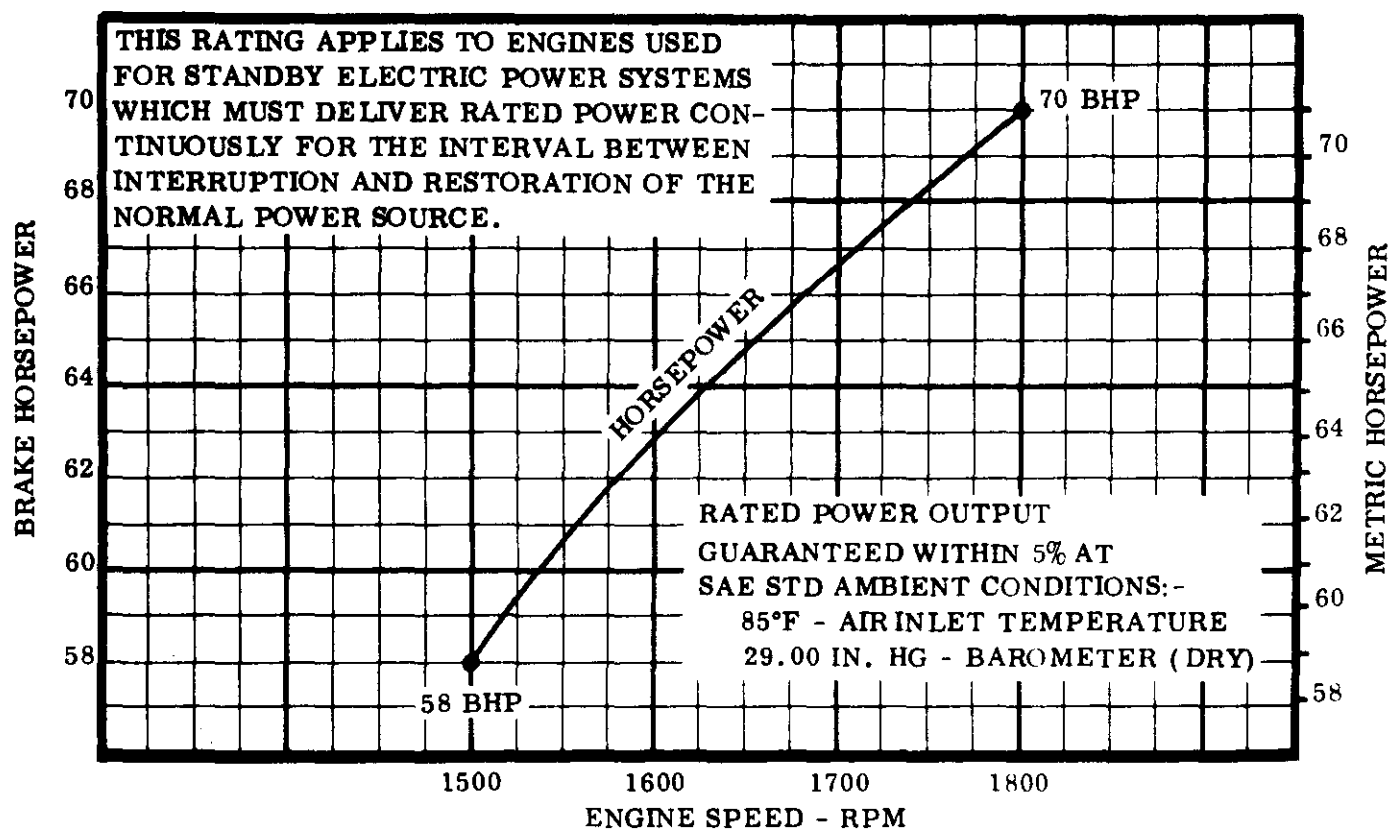
BASIC ENGINE
MODEL 3-53 DIESEL
2-VALVE HEAD
S40 or S45 INJECTORS



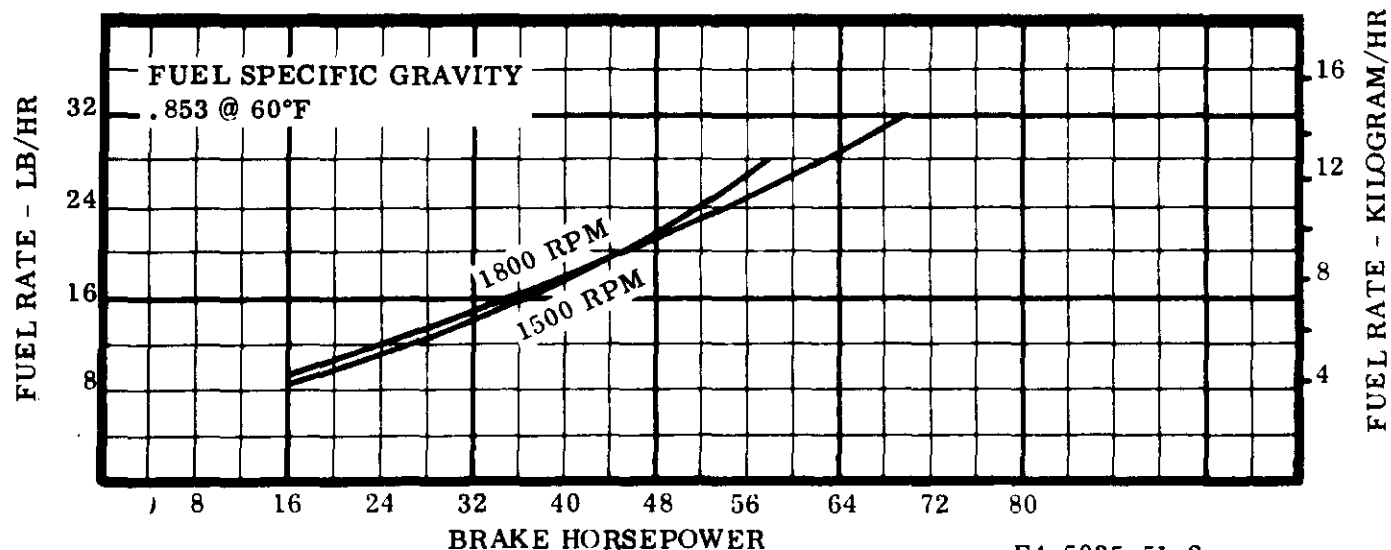


Detroit Diesel Allison
Division of General Motors Corporation

**3-53N(2V) ENGINE
DIESEL ELECTRIC STANDBY POWER
WITHOUT FAN
N50 INJECTORS**



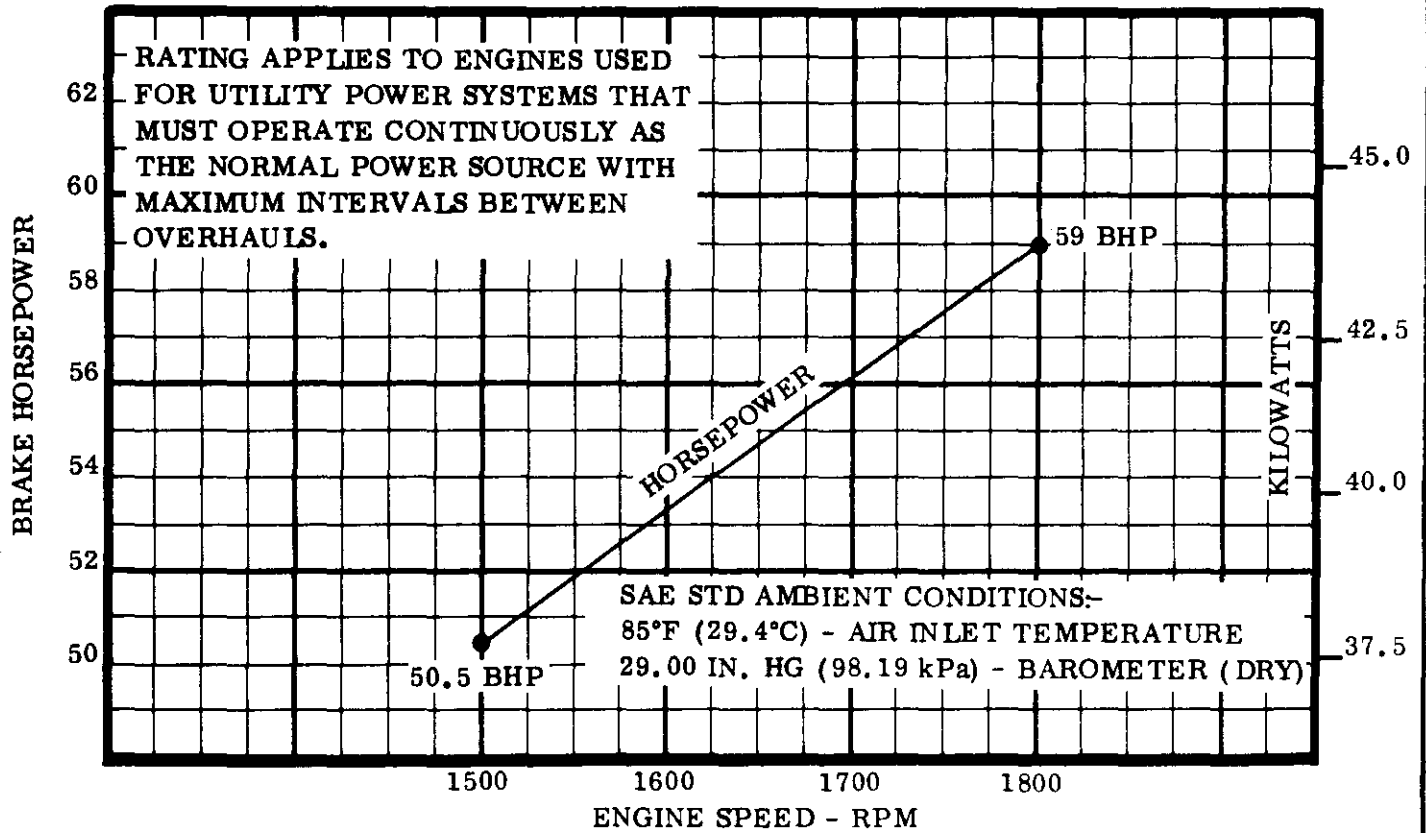
AVERAGE FUEL CONSUMPTION



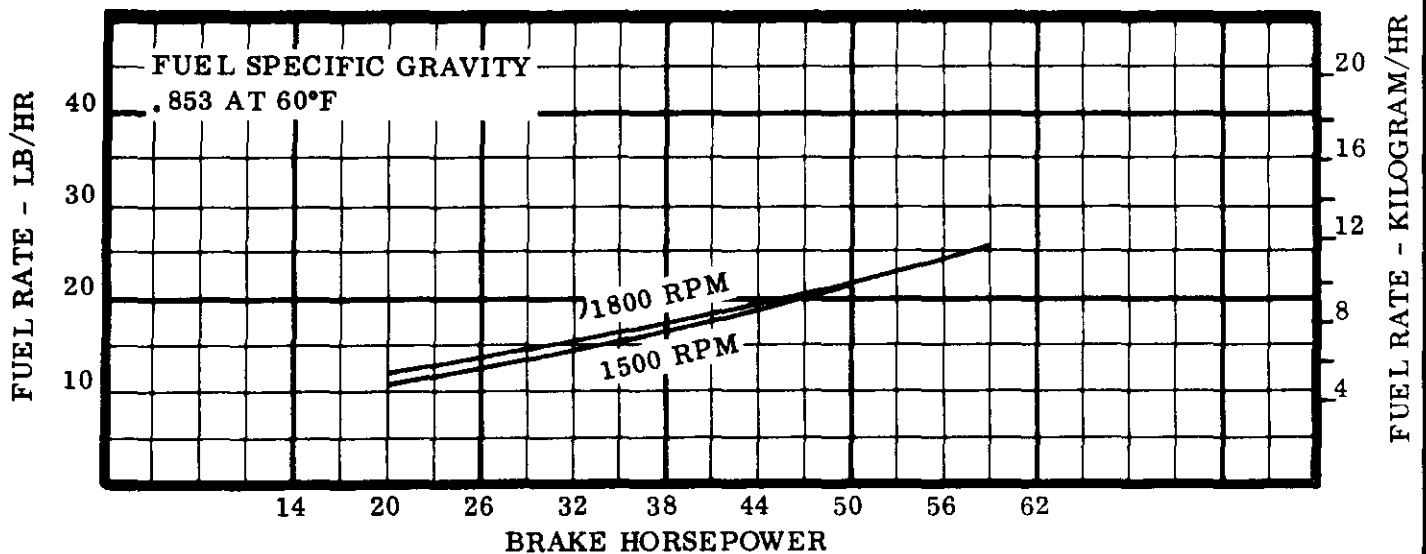


Detroit Diesel Allison
Division of General Motors Corporation

**3-53N(2V) ENGINE
DIESEL ELECTRIC PRIME POWER
(WITHOUT FAN)**



AVERAGE FUEL CONSUMPTION





DETROIT DIESEL ENGINE DIVISION

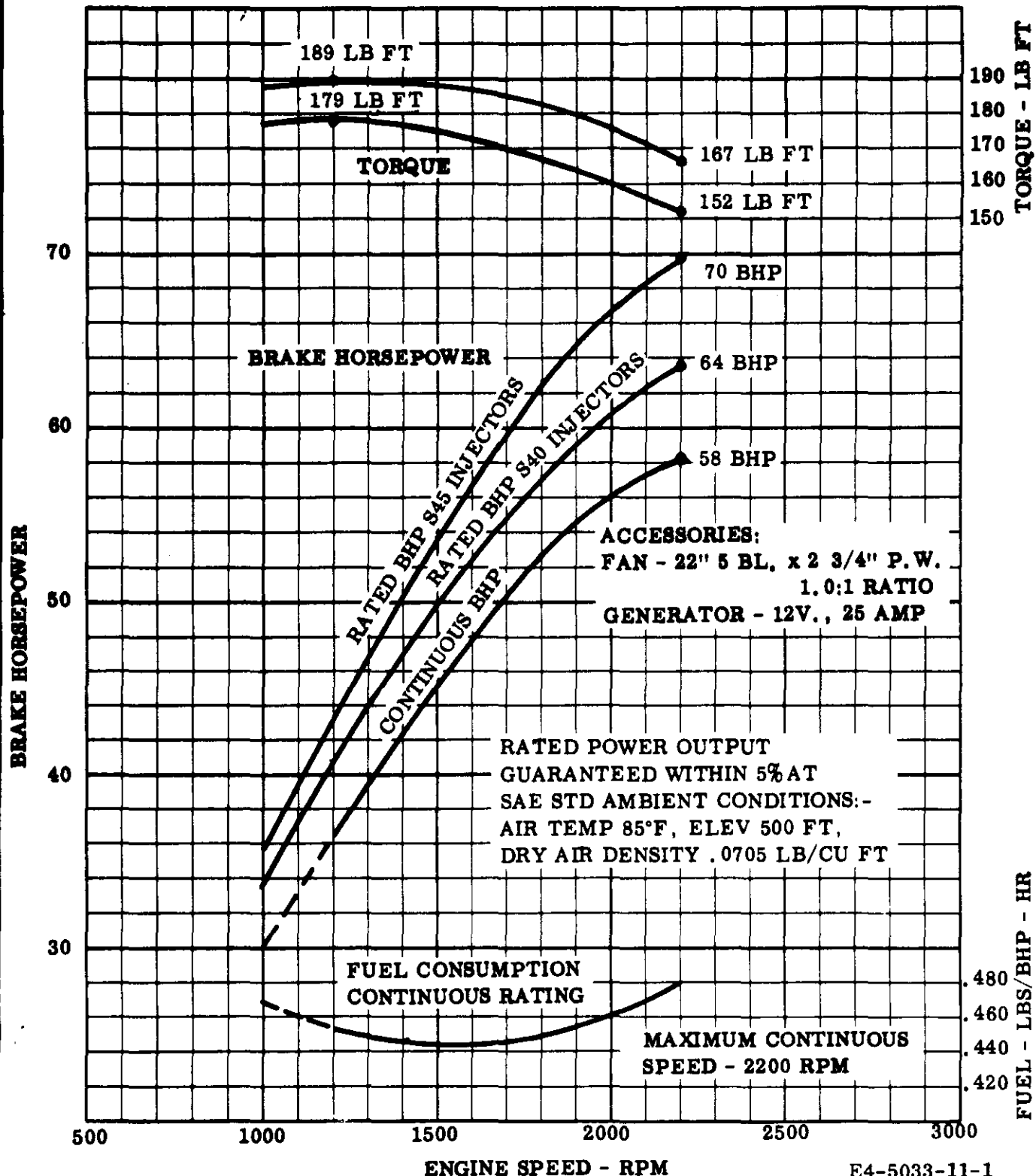
GENERAL MOTORS CORPORATION

SERIES 53

MODEL 5033-7101

(3-53 2 VALVE HEAD)

PERFORMANCE WITH STANDARD EQUIPMENT





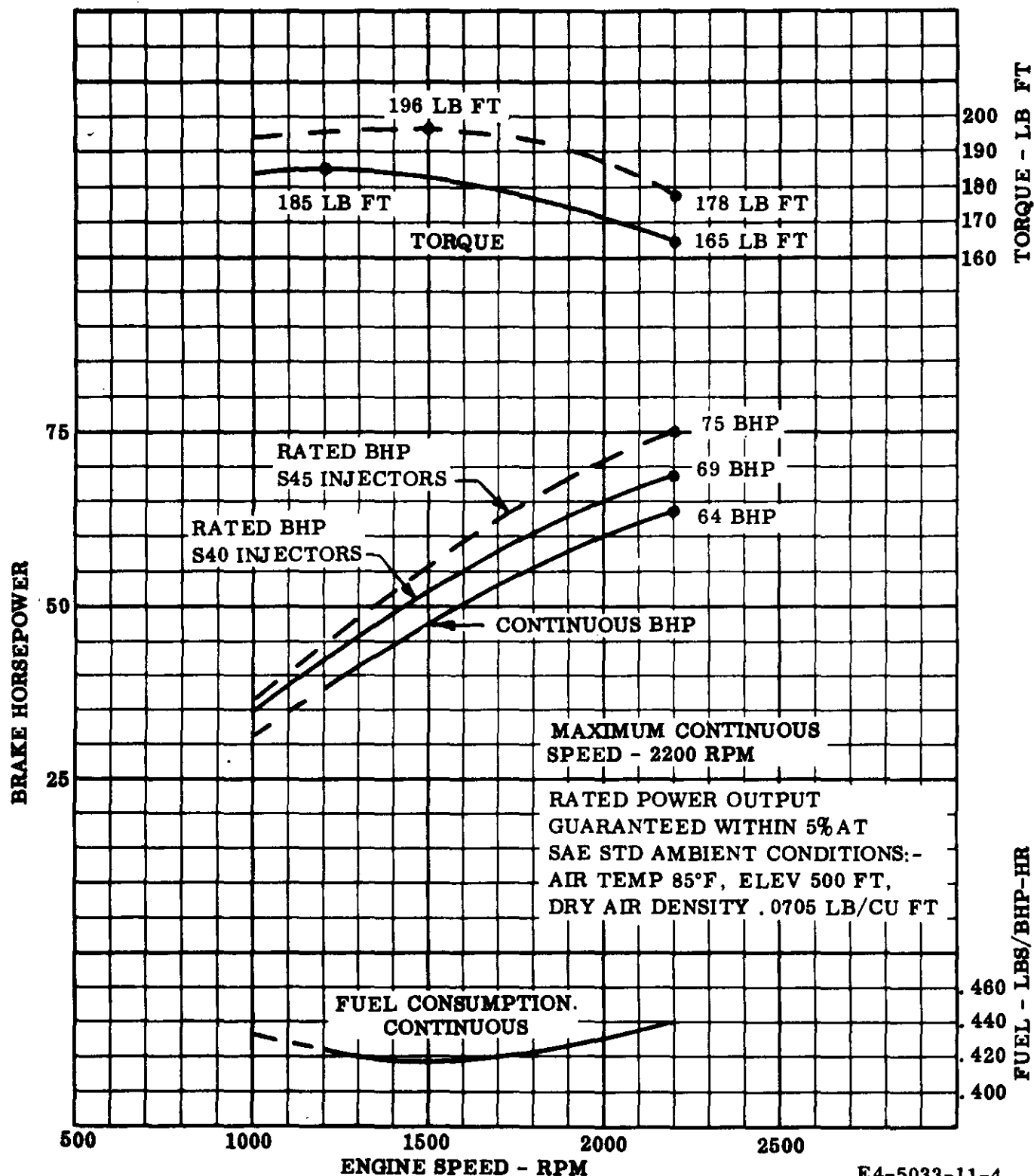
DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

SERIES 53

MODEL 5034 - 8100

PERFORMANCE WITH STANDARD EQUIPMENT



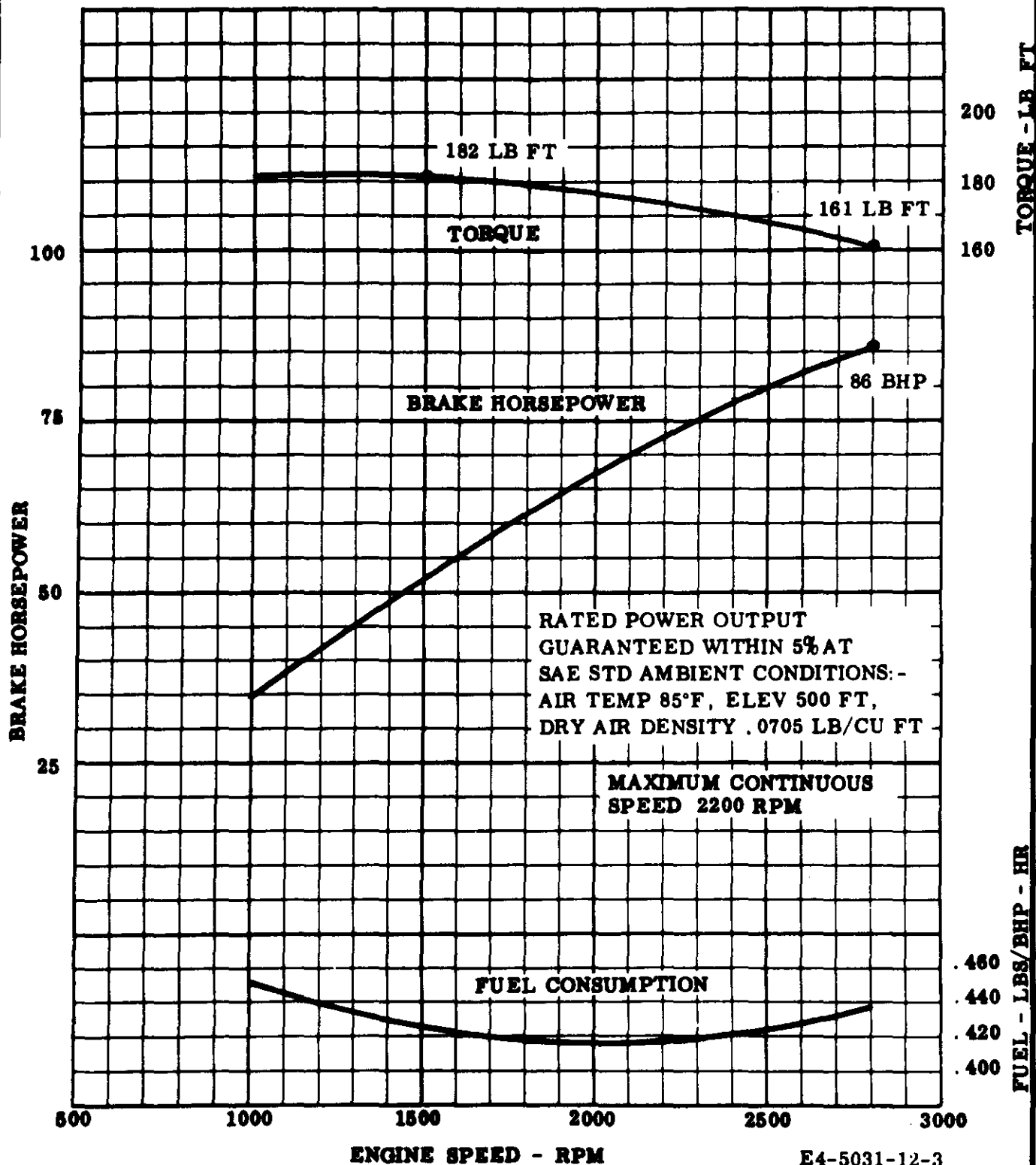
3158(4)/81N



DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

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

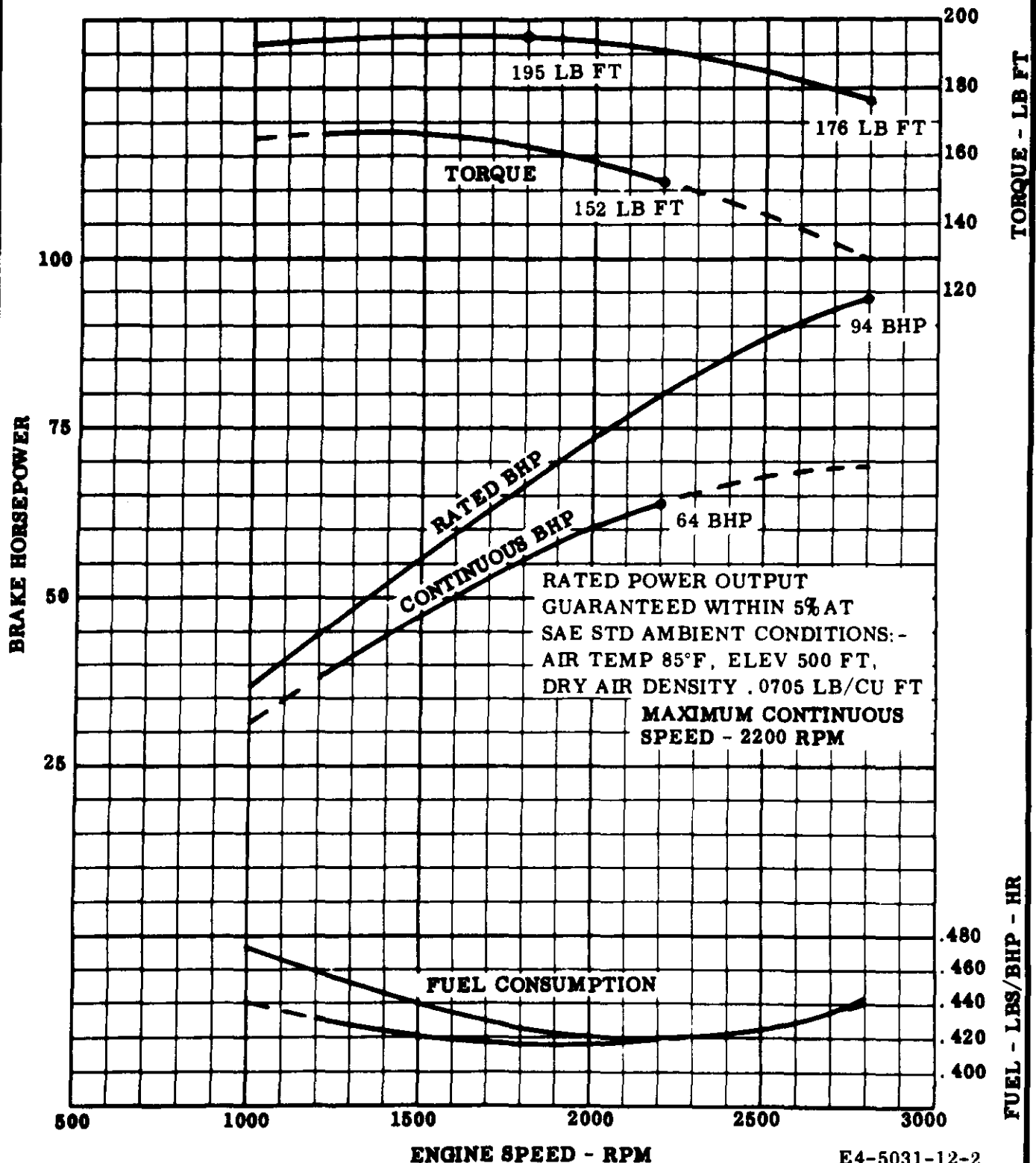




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

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

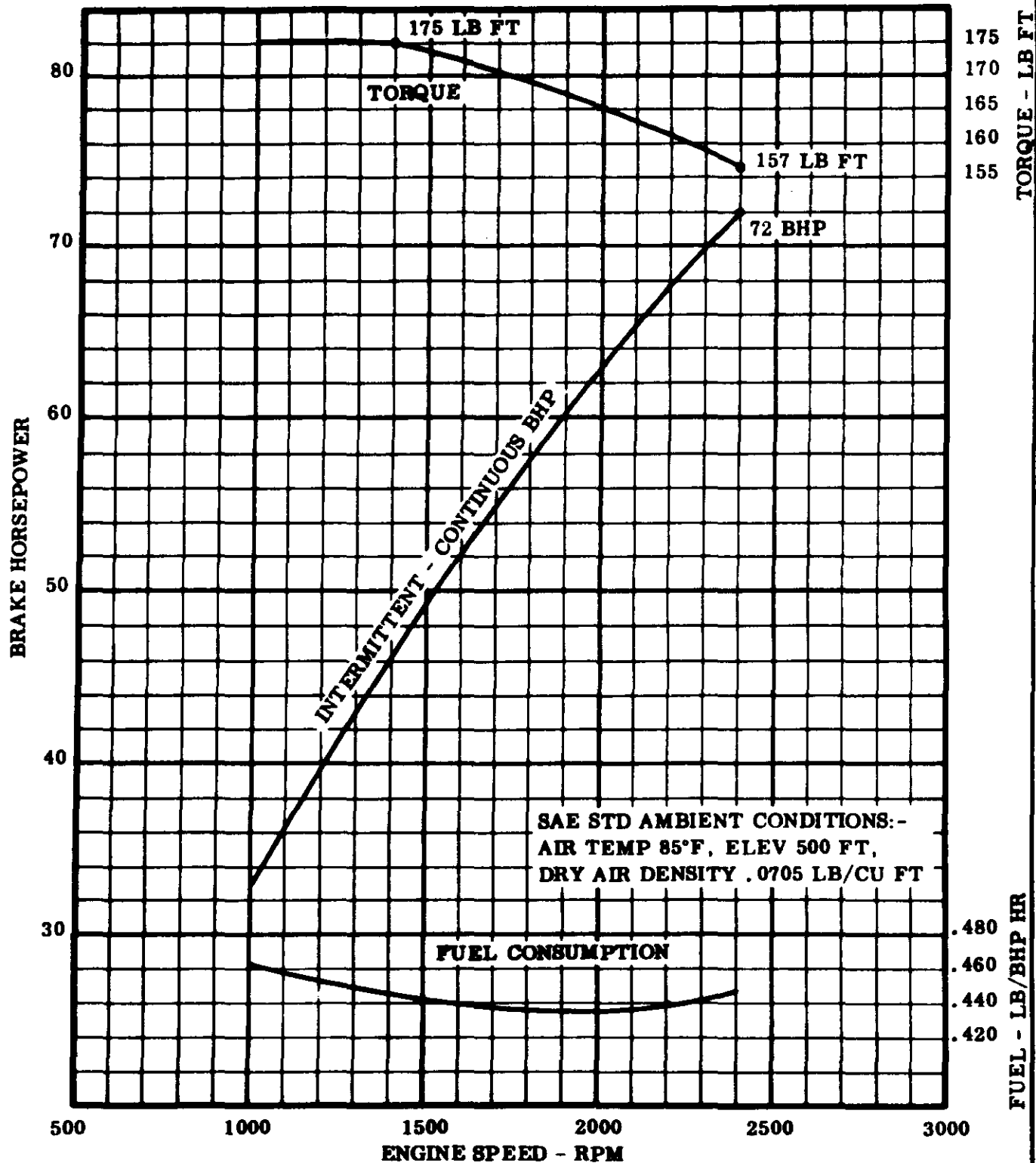




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

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

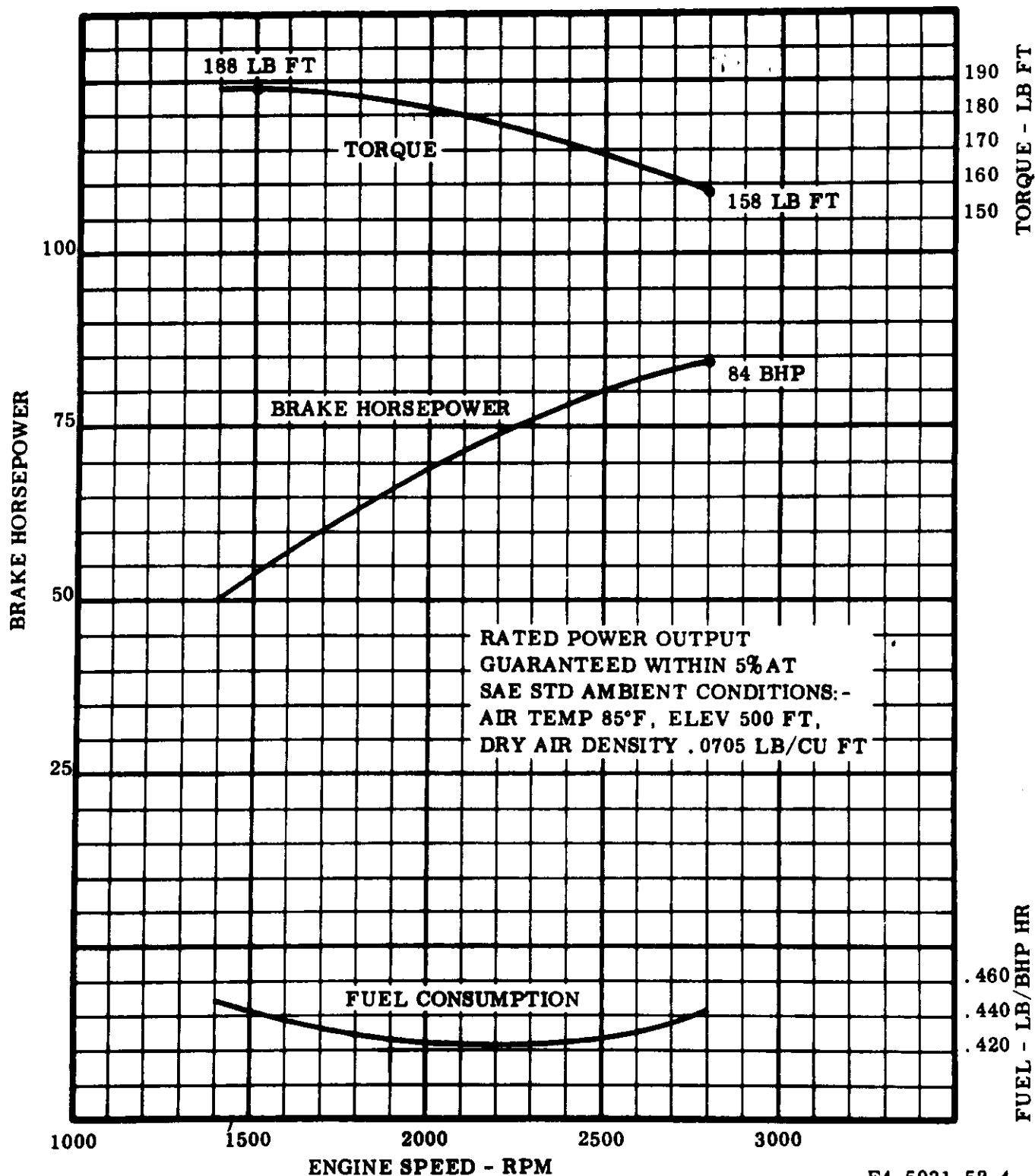




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

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

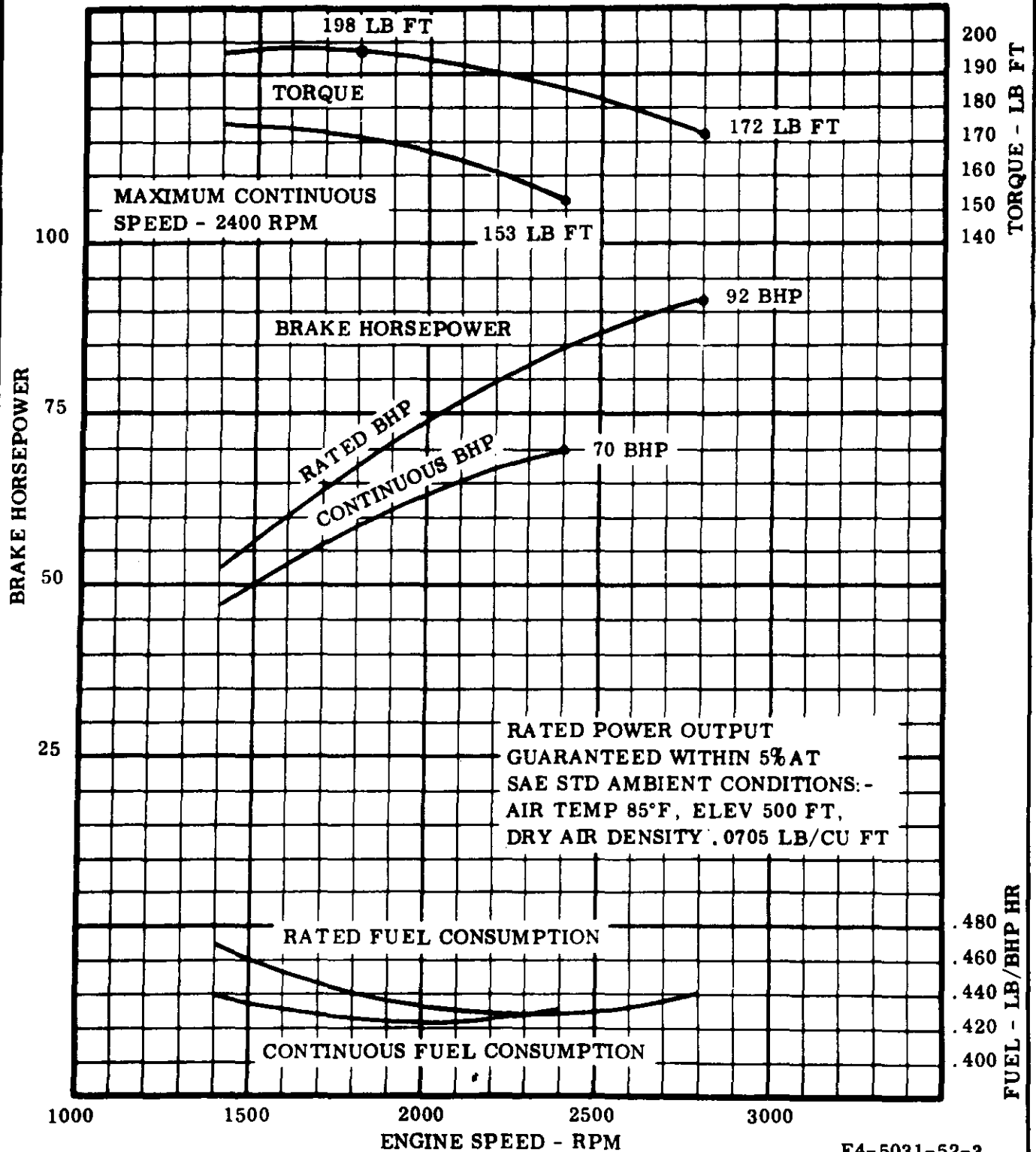




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

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

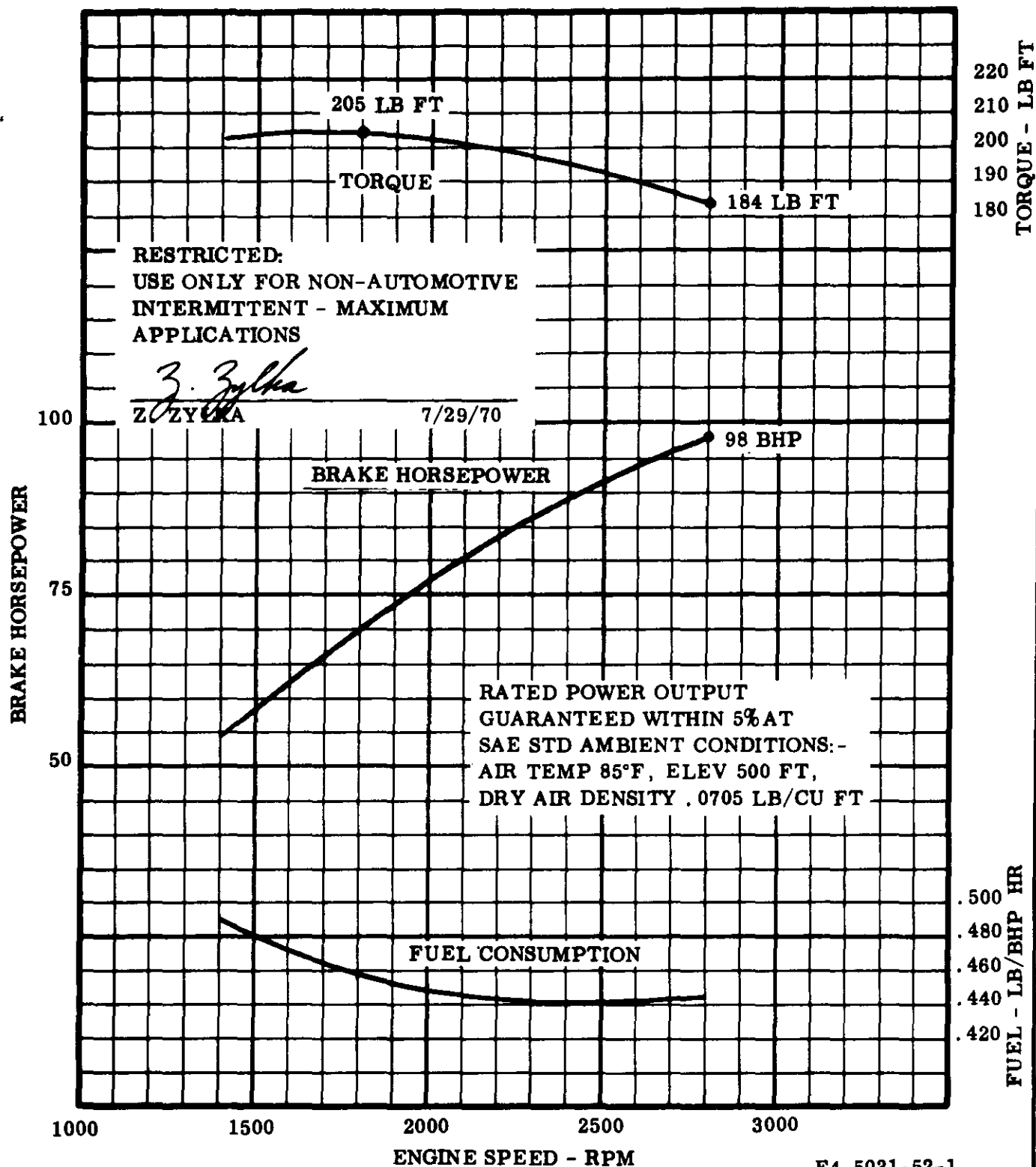




DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

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





DETROIT DIESEL ENGINE DIVISION

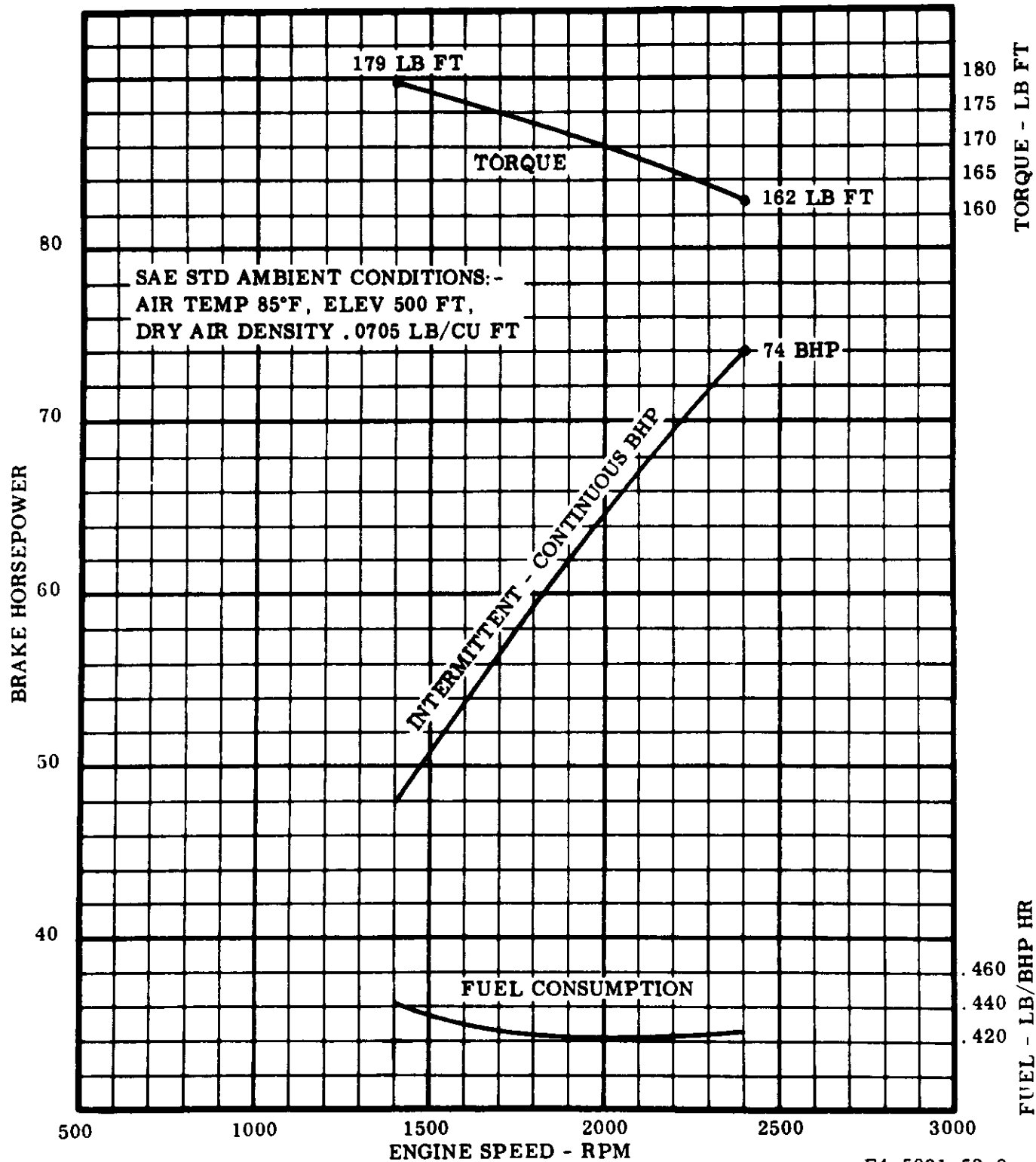
GENERAL MOTORS CORPORATION

BASIC ENGINE

MODEL 3-53N DIESEL

4-VALVE HEAD

N40 OR N45 INJECTORS





DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION

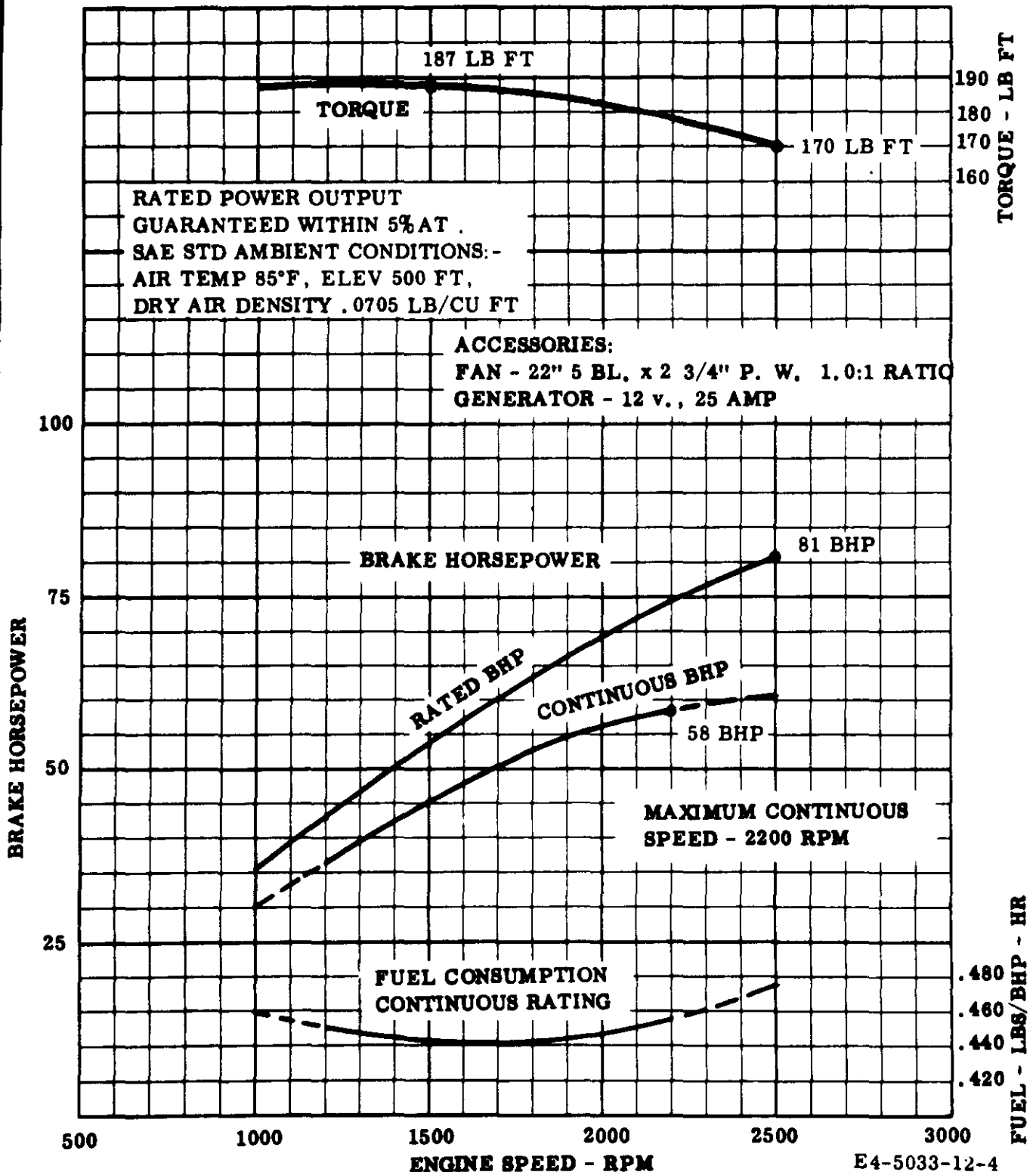
SERIES 53

MODEL 5033-7201

(3-53 4-VALVE HEAD)

PERFORMANCE WITH STANDARD EQUIPMENT

S45 INJECTORS





DETROIT DIESEL ENGINE DIVISION

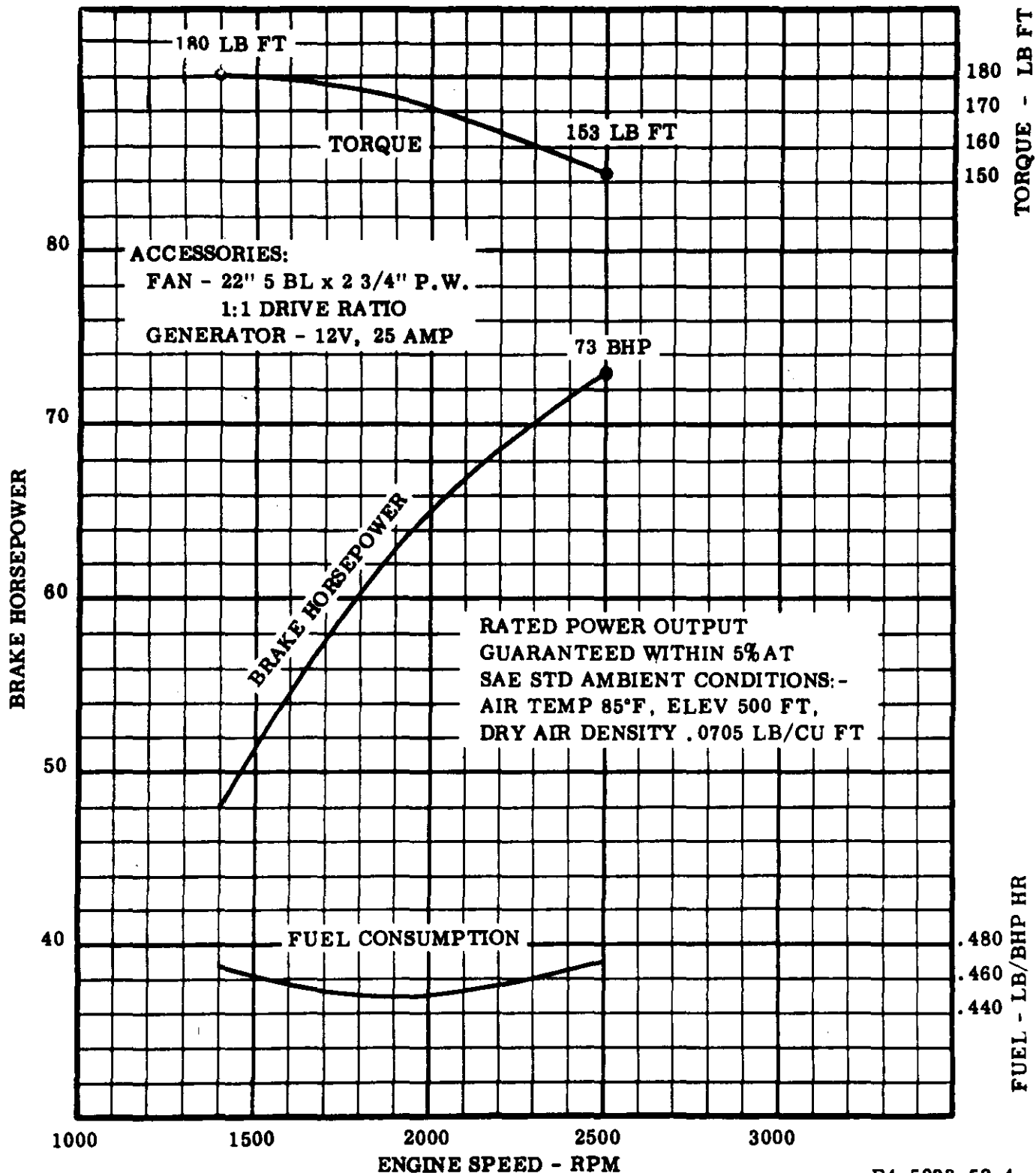
GENERAL MOTORS CORPORATION

SERIES 53N INDUSTRIAL

3-53N (4V) ENGINE

PERFORMANCE WITH STANDARD EQUIPMENT

N40 INJECTORS





DETROIT DIESEL ENGINE DIVISION

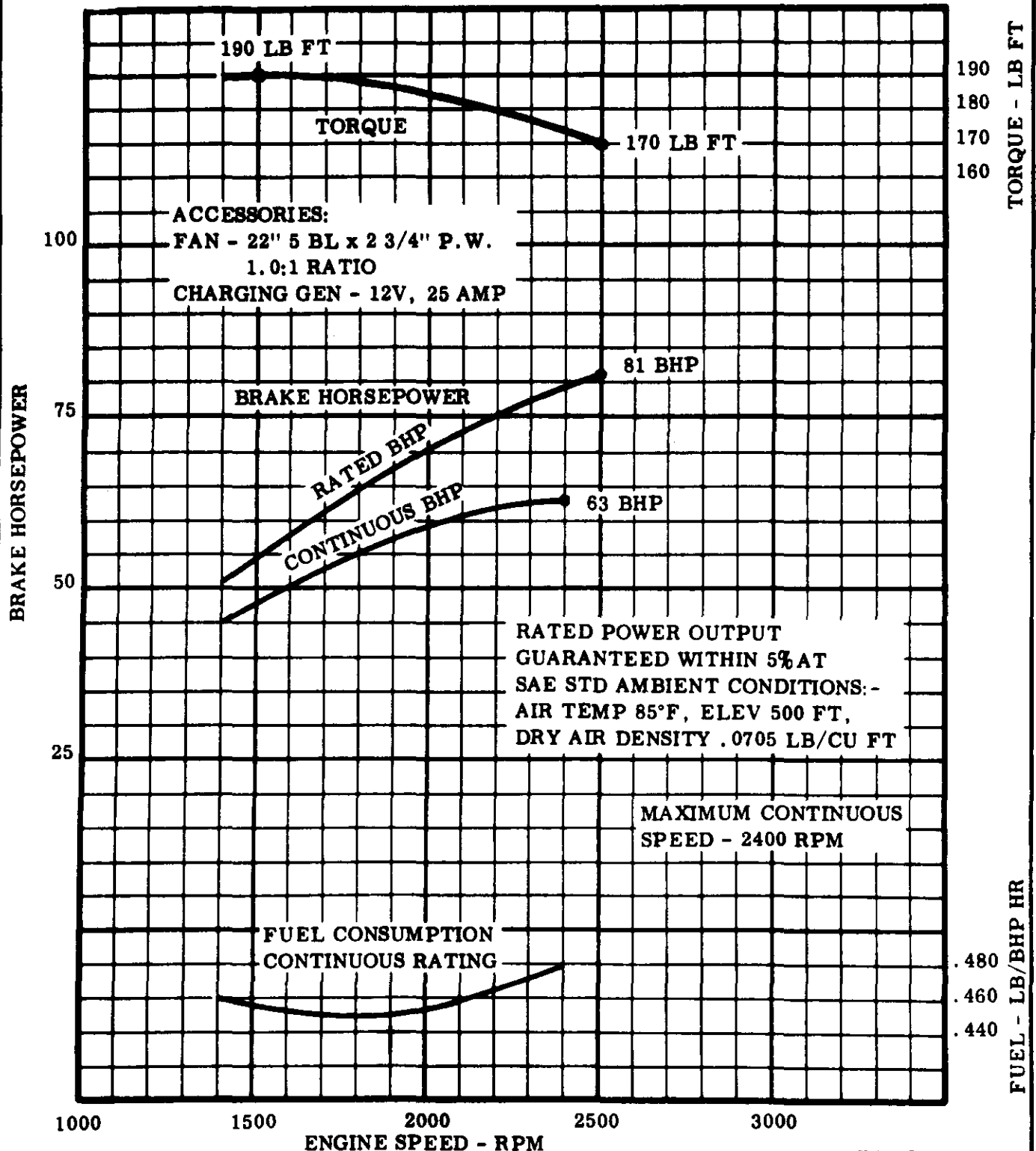
GENERAL MOTORS CORPORATION

SERIES 53N INDUSTRIAL

3-53N (4V) ENGINE

PERFORMANCE WITH STANDARD EQUIPMENT

N45 INJECTORS

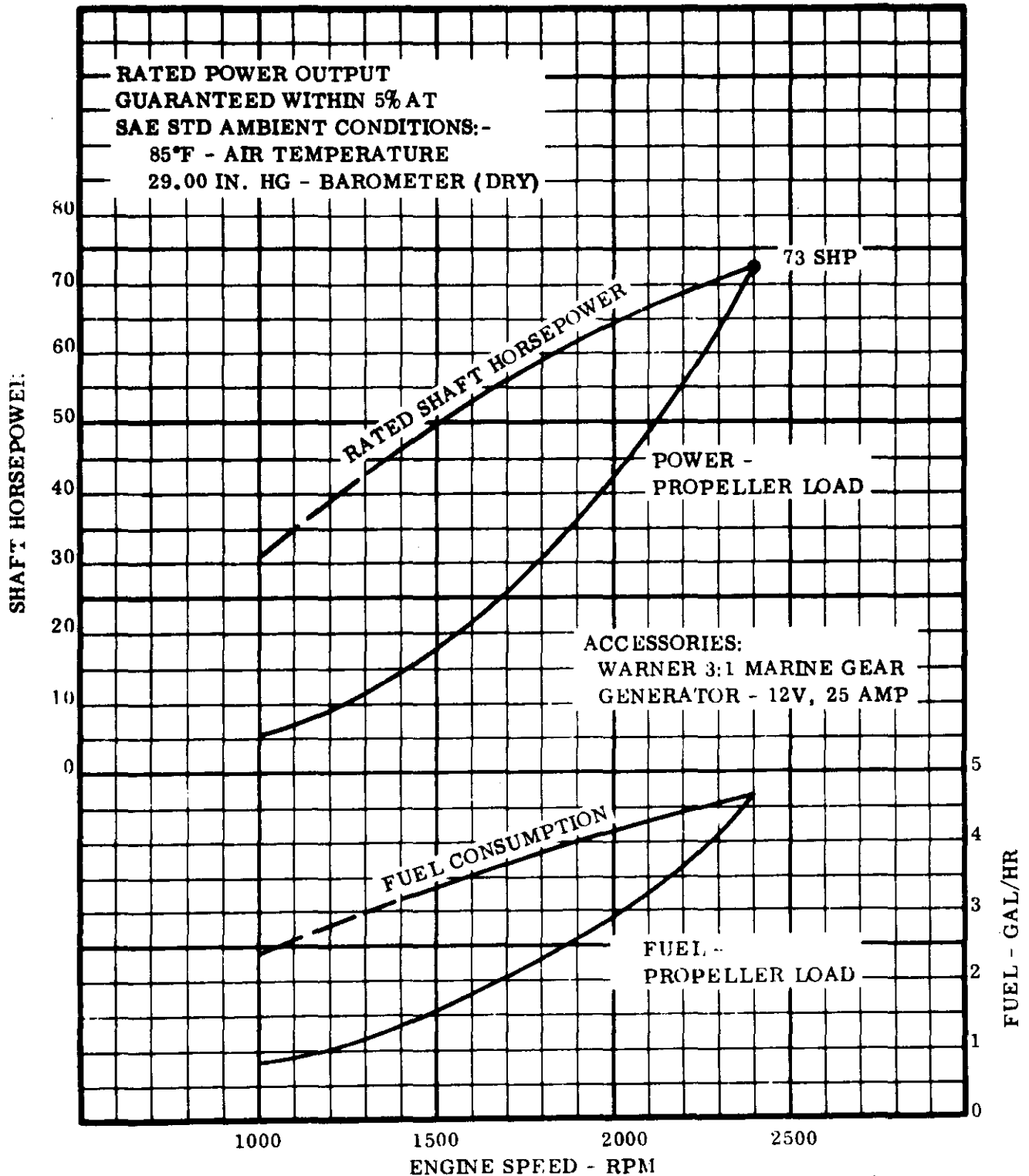




DETROIT DIESEL ENGINE DIVISION

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

