

ROLLS-ROYCE

AUTOMOTIVE DIESELS

STANDARD SPECIFICATION

TYPE Naturally aspirated 4-stroke, direct injection, compression ignition engine

CYLINDERS 6 vertical in-line, liquid cooled

BORE 5.125 in. (130.175 mm.)

STROKE 6 in. (152.4 mm.)

CAPACITY 742.64 cu. in (12.17 litres)

COMPRESSION RATIO 16 : 1

RATING

BS AU 141a : 1971. 220 h.p. gross at 2100 r.p.m. (maximum torque 610 lbf.ft. at 1500 r.p.m.)

DIN 70020. 218 h.p. (metric) at 2100 r.p.m.

ROTATION Anti-clockwise, viewed on fly-wheel

FUEL SYSTEM Injection equipment includes feed pump with hand priming lever. Jerk-type injection pump, pressure lubricated with all speed governor

LUBRICATION SYSTEM Front or rear drop sump. Oil cooler and full flow filters

COOLING SYSTEM Centrifugal pump with thermostatically controlled flow. Cab heater connections

FLYWHEEL Automotive type

FLYWHEEL HOUSING No. 1 S.A.E.

INDUCTION SYSTEM Inlet manifold, rear or centre inlet

EXHAUST MANIFOLD Rear downward outlet

FAN 22 in. (559 mm.) diameter, puller

STARTER 24 volt, electric

ALTERNATOR 24 volt, 720 watt

CONNECTIONS for lubricating oil pressure, coolant temperature and tachometer

AIR COMPRESSOR Gear driven, flange mounted 15 c.f.m. nominal capacity

NET DRY WEIGHT 2410 lb. (1092 kg.) approx.

OPTIONAL EQUIPMENT

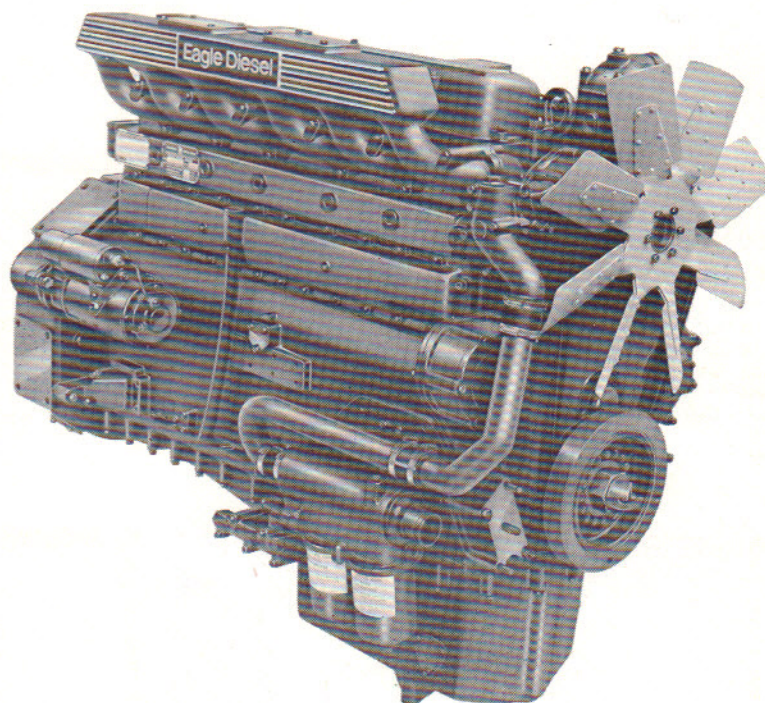
HYDRAULIC STEERING PUMP

ALTERNATOR CONTROL BOARD, supplied loose

EXHAUST BRAKE

CROSSOVER CONTROLS

Eagle 220 Mk III Diesel Engine



ROLLS-ROYCE
MOTORS

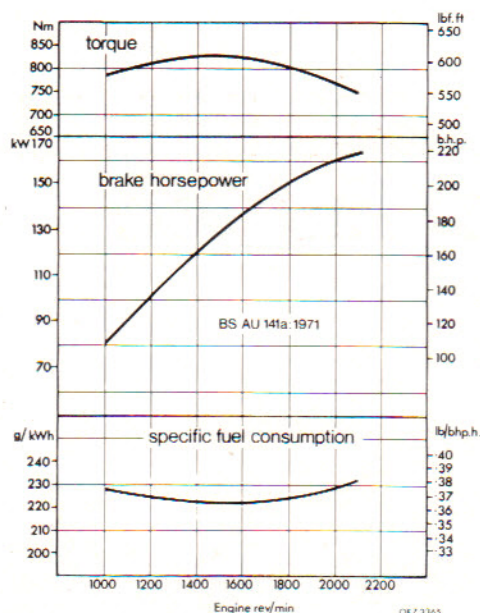
Diesel Division

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ROLLS-ROYCE

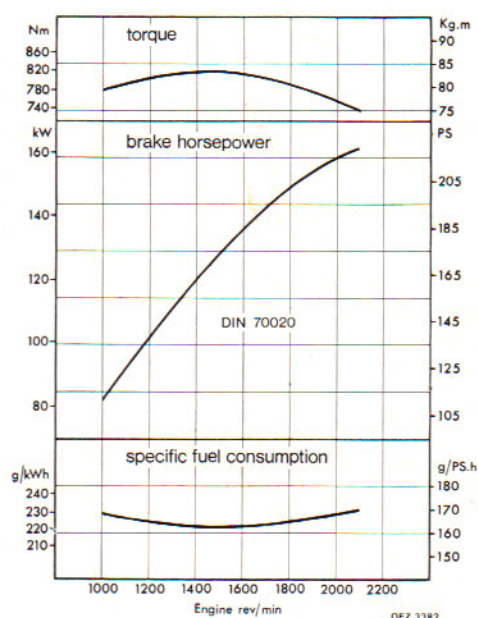
EAGLE 220 Mk III



BS AU 141a : 1971 POWER CURVE

Test Conditions:

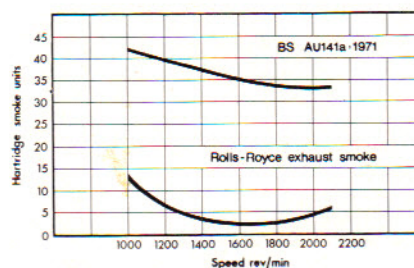
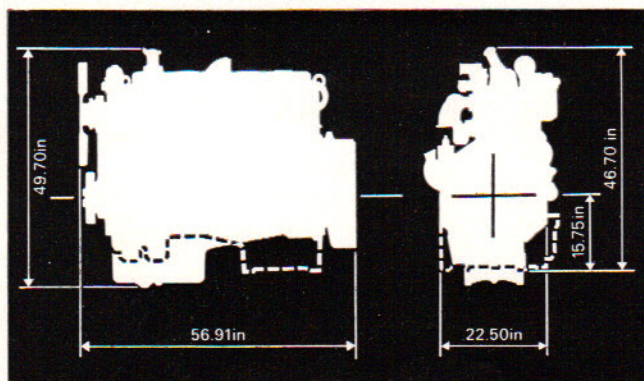
Air inlet restriction at maximum power 10" (254mm) H₂O
 Exhaust back pressure at maximum power 2" (51mm) Hg
 Barometric pressure 760mm Hg (101.5 kN/m²)
 Air temperature 20°C
 Alternator and air compressor in unloaded condition
 Fuel to BS.2869 Class A



DIN 70020 POWER CURVE

Vehicle Installed Conditions:

Air inlet restriction at maximum power 10" (254mm) H₂O
 Exhaust back pressure at maximum power 2" (51mm) Hg
 Barometric pressure 760mm Hg (101.5 kN/m²)
 Air temperature 20°C
 22" (559mm) fan at 1.07 x engine speed
 Alternator and air compressor in unloaded condition
 Fuel to BS.2869 Class A



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