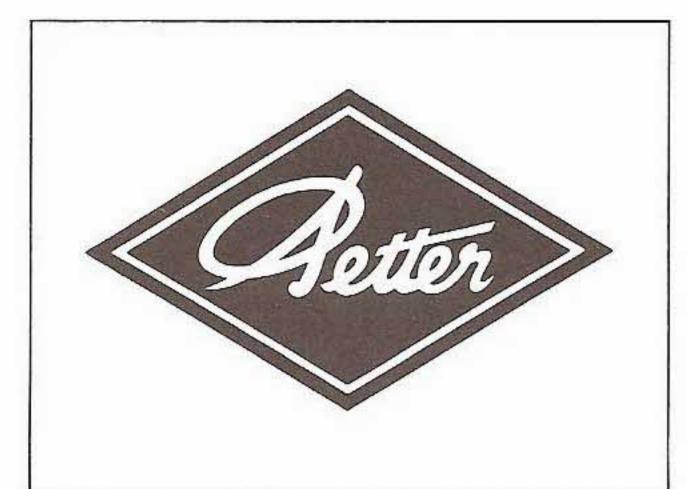
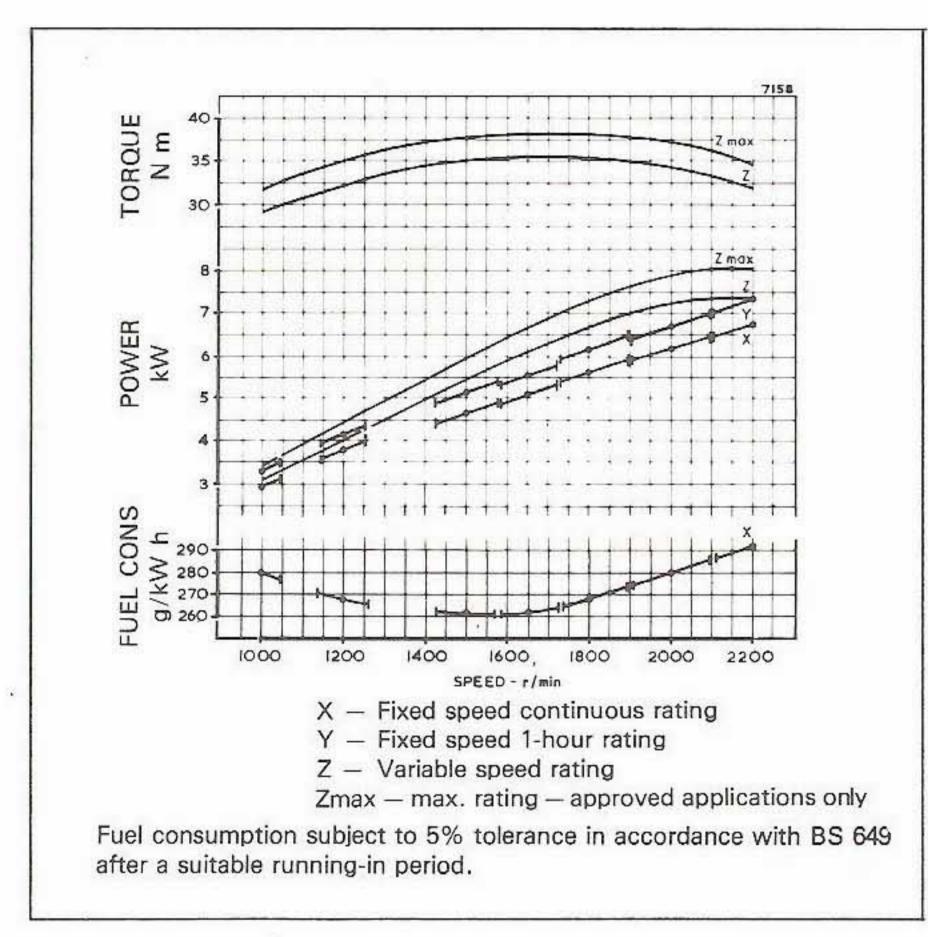
7.4 kW air cooled diesel engine



DIESELS



The PH1 single cylinder compression ignition engine with overhead valves and combustion by direct injection has been designed to combine easy starting and minimum maintenance with long life. Ruggedly constructed in cast iron with a forged steel crankshaft and connecting rod, aluminium pistons and replaceable shell bearings, this engine is supplied complete with starting handle, instruction book and spares pack.

SPECIFICATION OF STANDARD ENGINE

CYCLE

Four stroke.

COOLING

Air cooled cylinder and cylinder head by a centrifugal fan integral with the flywheel.

ROTATION

Clockwise looking on the flywheel end.

DRIVE

Engine speed at flywheel end.

STARTING

MOUNTING

Half speed hand start at gear end with removable handle.

INLET

Baseplate mounting with four holes suitable for 13 mm diameter bolts.

Engine mounted air cleaner with replaceable filter element.

EXHAUST

Engine mounted exhaust silencer.

LUBRICATION

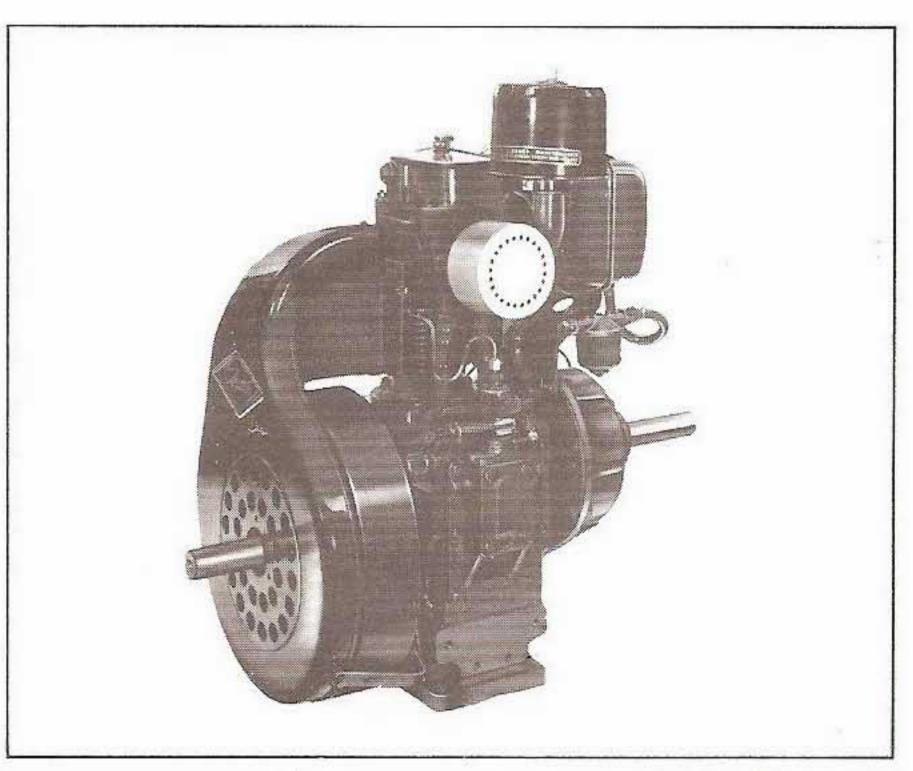
Oil pump pressure fed system with strainer.

FUEL SYSTEM

Engine mounted fuel tank and fuel filter with replaceable element.

GOVERNING

For general purposes, in accordance with BS 649 Class B, based on 2200 r/min design speed. For fixed speed 1500 and 1800 r/min engines, full load governing is to Class A2.



| Fixed | Speed Engine Ratings | |
|------------------------------|----------------------|------|
| Crankshaft speed r/min | Power | |
| | | |
| | 1000 | 3,0 |
| 1200 | 3.75 | 4.1 |
| 1500 | 4.7 | 5.15 |
| 1650 | 5.05 | 5.55 |
| 1800 | 5.6 | 6.15 |
| 2000 | 6.15 | 6.75 |
| 2200 | 6.7 | 7.4 |

TECHNICAL DATA

Bore (nominal)

87.3 mm

Stroke

110 mm

Cubic capacity Compression ratio 659 cm³ 16.5:1

Fuel tank capacity

6.8 litres

Fuel

Diesel to BS 2869 Class A1 or A2

Lubricating oil capacity

2.84 litres

Lubricating oil

To DEF 2101D or MIL-L-2104 B

below 5°C 5°C to 30°C SAE 10W/30 or 10W SAE 20/20W

above 30°C

Dry engine weight

SAE 30 185 kg

OUTPUT

The continuous powers tabulated conform to BS 649 and DIN 6270. The 1 hour rating is 10% higher than the continuous rating and is available for 1 hour in 12 to BS 649 and 1 hour in 6 to DIN 6270 B. Engines are all tested at their continuous rating. The setting of the fuel limiting stop is such that power in excess of this continuous rating, dependent upon application, can be obtained after a suitable runningin period.

DERATING

Depending on site conditions, derate in accordance with BS 649 as follows:

Altitude:

3 ½ % per 300 m above 150 m

Temperature:

2% per 5 ½ °C above 30°C