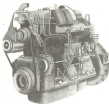




DIESEL ENGINE SW400

50-125 metric HP



The SW400 are manufactured by the Malaysian 30-stroke Ryschapeptiyah "ANSOOR" in Johor Bahru under a Licensed Motors Limited license.

The SW400 enables long operation under every climatic condition and long overhauling periods (7000) are due to special high-grade materials and precision observed in production of all component parts. Low

operating costs and very maintenance are further advantages of the SW400. The engines find numerous applications. Two main variants i.e. tractor engine and industrial engine are obtained due to some adjustment, change of engine suspension and installation of needed accessories.

SW400

Technical Data

Engine	— 4-cylinder, — diesel	Engine mounting	— flexible
Number and arrangement of cylinders	— six in-line, — vertical	Power take-off	— 100% power from the flywheel side through a friction type clutch or industrial clutch
Rated power (kw., hp.) DIN 78000	— 88 kW — 120 HP		
Max. torque at 1800 rpm (kg, lb) DIN 78000	— 407 Nm (30.0 kgm)	Flywheel housing	— acc. to SAE 1 made of cast iron for stationary engine
Rated speed	— 2400 rpm		— acc. to SAE 2 made of die cast iron for traction engine
Cylinder bore	— 90 mm		
Piston stroke	— 111 mm		
Engine capacity	— 5.54 dm ³		
Compression ratio	— 16		
Direction of rotation	— anticlockwise (as seen from the flywheel side)	Flywheel	— standard iron or acc. to the Customer's request
Specific oil consumption	— 1.8 g/kWh (1.4 g/HP)		
Specific fuel consumption (standard)	— 206 g/kWh (152 g/HP)	Dry engine mass	— full cast steel kg depending on the engine version
Injection	— direct		
Cooling	— water cooling		



407



400



- 1 - Compression pressure at 1000 rpm
 2 - Compression pressure at 1200 rpm
 3 - Compression pressure at 1400 rpm
 4 - Specific fuel consumption at 1000 rpm
 5 - Specific fuel consumption at 1200 rpm
 6 - Specific fuel consumption at 1400 rpm



- 1 - Compression pressure at 1000 rpm
 2 - Compression pressure at 1200 rpm
 3 - Compression pressure at 1400 rpm
 4 - Specific fuel consumption at 1000 rpm
 5 - Specific fuel consumption at 1200 rpm
 6 - Specific fuel consumption at 1400 rpm

1 - Compression pressure at 1000 rpm

1000

The technical data are given for the engine with standard. However, some discrepancies in some other technical specifications may differ from the actual data.

Standard equipment

Injection manifold
 Solenoid injector
 Injection pump
 Fuel filter
 Oil filter
 Water pump
 Thermostat
 Thermal expansion valve
 Alternator (24 V or 12 V, 750 W)
 Starter (24 V a.c.)
 Voltage regulator
 Flywheel

Optional equipment

Fuel filter
 Water injector
 Oil cooler
 Air filter, wet or dry
 Compressor, output 100 l/min, pressure 10 bar
 Hydraulic booster pump, output 12 l/min, pressure 10 bar
 High speed air intake hose clamp, 14"
 Water and oil temperature warning elements and oil alarm
 Oil pressure warning element and indicator (optional)
 Ignition speed indicator with running hourmeter
 Engine mounting feet
 Set of spare parts
 Set of tools

TURBOCHARGED DIESEL ENGINE

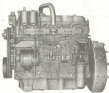


6CT107

150 metric HP



Wymora, Poland



The diesel engine 6CT107 is a variety of the 6N 800. The engines 6CT107 are manufactured by the Wymora, Polska Wytwórni Sprężarki "WIMORA" in Andriusów under a license granted by Leyland Motors Limited.

The 6CT107 enables free operation under every cir-

cumstances and long overhauling periods (TBO) are due to special high-grade materials and precision observed in production.

Low operating cost and easy maintenance are further advantages of the 6CT107. The engine finds numerous applications.

Technical Data

Engine	<ul style="list-style-type: none"> Four-stroke, turbocharged diesel 	Specific oil consumption	<ul style="list-style-type: none"> 1.8 g/kWh (1.8 g/kWh)
Number and arrangement of cylinders	<ul style="list-style-type: none"> six in-line, vertical 	Min. specific fuel consumption	<ul style="list-style-type: none"> 230 g/kWh (230 g/kWh)
Rated power base, to DIN 5040	<ul style="list-style-type: none"> 110 kW (150 HP) 	Injection	<ul style="list-style-type: none"> direct
Rev. range at 5000 rpm base, to DIN 70820	<ul style="list-style-type: none"> 800/1100 (500-1500) 	Cooling	<ul style="list-style-type: none"> water-cooling
Rated speed	<ul style="list-style-type: none"> 2000 rpm 	Engine starting system	<ul style="list-style-type: none"> electric
Cylinder bore	<ul style="list-style-type: none"> 101 mm 	Power take-off	<ul style="list-style-type: none"> 100% power from the flywheel via the traction clutch
Piston stroke	<ul style="list-style-type: none"> 121 mm 	Physical housing	<ul style="list-style-type: none"> acc. to SAE J1349
Engine capacity	<ul style="list-style-type: none"> 6.94 dm³ 	Physical	<ul style="list-style-type: none"> standard acc. to acc. to the Customer's request
Compression ratio	<ul style="list-style-type: none"> 15.0 		
Quantity of injection	<ul style="list-style-type: none"> antidetonation for use from the specified start 	Dry engine mass	<ul style="list-style-type: none"> 500 kg





a - Tractor power curves for 2000 (140 kW)



b - Tractor power curves for 2000 (160 kW)

Notes

The performance curves are valid for the engine under standard conditions. Actual results corresponding to your specific field application may differ from the figures shown.

Standard equipment

- Injection manifold
- Exhaust manifold
- Injection pump
- Turbocharger
- Fuel filter
- Oil filter
- Water pump
- Thermostat
- Hydraulic oil cooler
- Alternator 12 V/200 W, 140 A/120-1300 RPM
- Starter 24 V/1.60
- Voltage regulator
- Cylinder

Optional equipment

- Supply fan
- Water radiator
- Air cleaner
- Air compressor, output 150 l/min, pressure 8 bar
- Steering system hydraulic loader pump, output 150 l/min, pressure 100 bar
- Dry-matter separation dust, 10"
- Water and oil temperature warning elements and indication
- Engine mounting bar
- Set of components
- Set of tools

Applications

The BCT502 are applied in power lines and lines as well as in other building machinery, agricultural machines, generating sets, compressors, pumping units and power tools.



Manufacturer

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