

Specification project 180034

1 - CATERPILLAR DIESEL ENGINE, MODEL 3512 DI-TA

This is a four stroke, 12 cylinder V diesel engine, with an exhaust gasturbine system "Buchi".

ENGINE DATA	bore	: 170 mm
	stroke	: 190 mm
	cylinder displacement	: 51,8 ltrs
	rotation	: counter clockwise when viewing flywheel
	serial number	: 1KZ02877 converted to 49Y00001 – up
	arrangement number	: 4W0282 with spec. 2T9576

CONTINUOUS POWER: 1280 hp (954 kW) at 1800 rpm

USED COOLING SYSTEM:

jacketwater : radiator cooling
aftercooler : by jacketwater

The delivery includes:

GENERAL:

paint yellow
crankcase
crankcase breather
flywheel with flywheel housing SAE no.00
supports, rails type, 13 "
lifting eyes

INLET AND EXHAUST SYSTEM:

air filter, dry
watercooled exhaust manifold
watercooled exhaust gasturbine

FUEL SYSTEM:

fuel priming pump (manually operated)
fuel transfer pump
fuel filter, single
primary fuel filter, single
flexible connections for fuel lines

ENGINE CONTROL:

governor, make Woodward, model 3161
governor control, positive locking
stophandle
remote electric control is included

LUBRICATING SYSTEM:

lubricating oil cooler
lubricating oil filter, single
lubricating oil pump, gear driven

STARTING SYSTEM:

electric starting system, consisting of:
electric starting motors, dual, 24 V
charging alternator with regulator 24 V, 60 A

SAFETY SHUT-OFF SYSTEM:

- alarm system in operation
- low lube oil pressure (stop)
- high jacket water temperature (stop)
- overspeed (stop)
- starter interlock

fuel rack solenoid shut-off, energized to shut down (24 VDC), all contacts wired to a start/stop panel, incl. start/stop switch, reset switch, speedcontrol, indication lights.
(according drawing DP070101)

INSTRUMENTPANEL, ENGINE MOUNTED, including:

lube oil pressure and temperature gauges
fuel oil pressure gauge
jacket water temperature gauge
lube oil filter differential pressure gauge
servicemeter
tachometer
exhaust temperature, per manifold, gauge (double)

RADIATOR COOLINGSYSTEM, consisting of:

jacket water pump, gear driven
radiator, 72/25 FC, radiator mounting rails, engine mounted
blowerfan with fan drive
thermostats with housing
flexible connections for cooling water, engine/radiator

FURTHER:

loaded testrun, with report