



RODSON UNIVERSAL PTE LTD

cranes, piling equipment, heavy machinery, marine equipment, shipyard equipment

57, Mohd Sultan Road, Sultan Link # 03-05, Singapore 238997

Company Registration No: 201009137Z

Ref: ga1214

www.rodson.com

info@rodson.com

10 MW Natural gas Power plant DEUTZ engine Completely overhauled

Year – 1999

Description	Quantity
Deutz MWM TBG632V16 gas engine	3
A Van Kaik type DIDBN 150/140 n/6 11kV, 50Hz Alternator	3
Acoustic rooms	3
Engine Control Panel and 48V DC switchgear battery charger unit	3
Exhaust and silencers to stacks (e)	3
Forced draft water cooling system	3
11kV, 230MVA HV switchgear suite comprising 3 generator in-comer SF6 circuit breakers (b)	1
Motor control center	1
Fuel gas trains (a)	1
Clean Lube oil tank	1
Dirty oil tank	1
Set of manuals	1
Central compressed air system	1
Fire and gas detection system	1



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All 16 cylinder heads replaced by service exchange cylinder heads from the Deutz German Xchange centre. All associated valve gear re-assembled and set to the correct clearances. All 16 combustion spaces cleaned and checked. Both intercoolers completely stripped and rebuilt using all new gaskets and seals. All aluminum covers, top and bottom, have been replaced using cast covers. Both gas mixers cleaned, checked and lubricated. Control of both gas mixers checked correct and tested from the TEM with full travel. Limit switches set up correct. New oil filters, seals and O rings fitted. New air filters and spark plugs have been supplied but not fitted to prevent damage in transit. Old filters and plugs re-fitted to the engine to prevent dirt ingress to engine. All old oil drained from engine. Oil filter housing bracket on A bank has been replaced due to the original being badly cracked. Intercooler and jacket water system pressure tested to 4.5 bar with no leaks. Both turbo chargers type RR221 - 14 have been returned to the manufacturer for overhaul. The details of which have been supplied on a previous report. New control batteries have been fitted to the generator control panel. All associated pumps and fan motors associated with the generator have been run under electrical power and proved correct. Throttle has been re-calibrated through the TEM system. All engine sensors are indicating correct back to the TEM system. The TEM CPU has been upgraded to version 2.29, and the operating terminal has been upgraded to the latest touch screen version. The TEM system has been re - installed with all the original commissioning parameters and additional 24 messages.

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