

Reflow X

MAN Diesel Power Plant – Fleet Overview (7 Units)

Reflow X
SHAPING A SUSTAINABLE TOMORROW

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Description

Manufacturer	MAN Diesel & Turbo
Model (gas turbine)	MAN 8L52/52
Order / Unit ID	M11-M17
Year	80s
Condition	Maintenance Required
Location	Middle East
Qty available	7 Units
Engine Type	Medium-speed reciprocating diesel engine
Rated Output (per engine)	7,150 kW (7.15 MW)
Permissible Continuous Load	5,500 kW (max)
Engine Speed	514 RPM
Turbocharger Make	MAN
Turbocharger Type	NA 57 / N350
Plant Configuration	Multi-engine diesel power station
Original Application	Baseload / captive power
Fuel system	Heavy Fuel Oil (HFO)
Frequency	50HZ

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Unit-by-Unit Status Summary

<u>Tag</u>	<u>Serial No</u>	<u>Status</u>	<u>Remarks</u>
M11	1100007	Out of Service	Overhaul due
M12	1100008	Standby	Available
M13	1100006	Standby	Approaching 20,000 hrs major OH
M14	1100005	Out of Service	Major crankshaft breakdown
M15	1100009	Standby	Operational data recorded
M16	1100010	Standby	Operational data recorded
M17	1100011	Standby	Operational data recorded

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Technical Details from ABB GT10B

Operational Snapshot

- Total engines installed: 7
- Engines in operation at inspection: 5
- Under major overhaul: 1
- Out of service (major breakdown): 1
- Typical operating load: <50% of rated capacity
- Observed issue: Black smoke from exhaust chimney

Condition & Maintenance

Based on the inspection report and observations 8L report

- Several engines have exceeded 20,000 operating hours and are overdue for major overhaul
- Turbochargers not cleaned regularly (mechanical / chemical)
- Fuel injectors not consistently overhauled at recommended 5,000-hour intervals
- Air intake filters and drives in degraded condition, restricting airflow
- Evidence of poor combustion, linked to:
 - Clogged air filters
 - Weak compression due to worn piston rings and valve seating
 - Injector wear and diesel dripping

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Required Corrective Actions (OEM-Aligned)

- Immediate major overhauls for engines exceeding 20,000 hours
- Overhaul and calibration of fuel injectors every 2,500–5,000 hours
- Cleaning of:
 - Turbocharger compressor wheels (online & offline)
 - Turbine wheels at OEM-recommended intervals
 - Restoration of air intake filtration systems
 - Installation and monitoring of:
 - Crankcase pressure gauges
 - Differential pressure gauges across air filters

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