

Independent periodic health inspection - LM6000

Turnaround time: Estimated working time is approx. 60 hours

Turnaround time in days of 10 hours each:

- ✓ with provision of 1 mechanical engineer: 6 days
- ✓ with provision of 2 mechanical engineers: 3 days



Independent periodic health inspections surpass traditional periodic or borescope inspections:

- Fully independent perspective (especially important with engines under warranty)
- Dedicated improved work scope based on extensive VBR expertise & experience in:
 - ✓ optimizing reliability & availability LM engines
 - ✓ preventing & reducing unscheduled downtime LM engines
 - ✓ optimizing total lifetime LM engines
 - ✓ optimizing safe operation environments
- Very cost effective: improved work scope at a competitive pricing
- Tailor-made recommendations based on customer business model & operating profile
- All recommendations and reports available 24/7 through your VBR Turbine Partners customer portal access (+ full service history upon request)

About VBR

VBR Turbine Partners are independent technical & digital maintenance experts for LM aeroderivative gas turbines and their control systems.

LM2500+ | LM6000 | TM2500+ | PGT25+ | Speedtronic | Woodward | DECIDE

We support LM operators worldwide to improve their reliability, availability & maintainability and to reduce their day-to-day operation & maintenance costs in a sustainable way.

Contact details

VBR Turbine Partners
Main office & warehouse

Industrieweg Oost 6
6662 NE Elst
The Netherlands

+31 88 010 9030
sales@vbr-turbinepartners.com
www.vbr-turbinepartners.com



Independent periodic health inspection



LM6000

	PA	PB	PC	PD	PF	PG	PH
Borescope inspection							
Low Pressure Compressor	●	●	●	●	●	●	●
High pressure compressor (electronic turning tool)	●	●	●	●	●	●	●
Combustor and Stage 1 HPT Nozzle (including Premixer inspection)	●	●	●	●	●	●	●
High pressure turbine (electronic turning tool)	●	●	●	●	●	●	●
Low Pressure turbine	●	●	●	●	●	●	●
GT visual exterior inspection							
Tubing, hoses and electrical harnesses	●	●	●	●	●	●	●
VIGV assembly	●	●	●	●	●	●	●
Low pressure compressor	●	●	●	●	●	●	●
Air collector	●	●	●	●	●	●	●
Compressor front frame	●	●	●	●	●	●	●
Transfer and accessory gearbox	●	●	●	●	●	●	●
Compressor stator and variable vane components	●	●	●	●	●	●	●
Compressor rear frame	●	●	●	●	●	●	●
High pressure turbine	●	●	●	●	●	●	●
Low pressure turbine	●	●	●	●	●	●	●
Turbine rear frame	●	●	●	●	●	●	●
Accessories	●	●	●	●	●	●	●
GT mounts	●	●	●	●	●	●	●
Inlet and coupling inspection							
Filter house	●	●	●	●	●	●	●
Silencers	●	●	●	●	●	●	●
Inlet plenum	●	●	●	●	●	●	●
Coupling inspection (cold end drive)	●	●	●	●	●	●	●
Engine enclosure inspection	●	●	●	●	●	●	●
Exhaust inspection							
Exhaust duct inspection	●	●	●	●	●	●	●
Diffusor inspection	●	●	●	●	●	●	●
Coupling inspection (hot end drive)	●	●	●	●	●	●	●
Lube and scavenge pump							
L&S pump inlet screens will be inspected	●	●	●	●	●	●	●
(Magnetic) plug or chip detector inspection	●	●	●	●	●	●	●
Synthetic lube oil analysis	●	●	●	●	●	●	●
Fuel system visual inspection	●	●	●	●	●	●	●
Variable inlet guide vane (VIGV) rig check	●	●	●	●	●	●	●
Variable stator vane (VSV) rig check	●	●	●	●	●	●	●
Variable bypass door (VBV) rig check	●	●	●	●	●	●	●
Fuel nozzle visual inspections							
Two fuel nozzles will be removed for a visual inspection	●		●			●	
Tip wear measurements	●		●			●	

	PA	PB	PC	PD	PF	PG	PH
T4.8 inspection							
Visual inspection	●	●	●	●	●	●	●
Resistance check	●	●	●	●	●	●	●
P4.8 visual inspection	●	●	●	●	●	●	●
Hydraulic control unit filter inspection (HCU)	●	●	●	●	●	●	●
Gas turbine starter oil return line screen inspection (if installed)	●	●	●	●	●	●	●
Igniter visual inspection	●	●	●	●	●	●	●
Starter Carbon Seal Cleaning	●	●	●	●	●	●	●
D/E-sump drain interface cleaning	●	●	●	●	●	●	●
Hydraulic starter Hydraulic starter spline lubrication (Vickers model only)	●	●	●	●	●	●	●
Cleaning of sight glasses	●	●	●	●	●	●	●
Hilliard hydraulic starter overrunning clutch inspection (if applicable for client configuration)	●	●	●	●	●	●	●
Gas y-strainer (if installed)	●	●	●	●	●	●	●
Non-return valve inspection (if applicable for client configuration)	●		●			●	
High pressure turbine diffuser borescope inspection Until SB LM6000-IND-0216 is incorporated	●	●	●	●			
Inlet gearbox spline borescope inspection (service letter LM6000-04-01-R2) Only required before SB LM6000-IND-0220	●	●	●	●	●	●	●
High pressure compressor stage 11 manifold check valve borescope inspection	●	●	●	●	●	●	●
Right side aft stage 8 LPT cooling air tube visual inspection Until SB LM6000-IND-0211 is incorporated	●		●				
PCC forward mount bolt wear visual inspection	●	●	●	●	●	●	●
Hydraulic accumulator inspection (DLE models only)		●		●	●		●
LPT stage 5 blade inspection	●	●	●	●	●	●	●
Start-up checks	●	●	●	●	●	●	●