Independent periodic health inspection - LM2500(+)

Turnaround time: Estimated working time is approx. 40 hours

Turnaround time in days of 10 hours each:
✓ with provision of 1 mechanical engineer: 4 days
✓ with provision of 2 mechanical engineers: 2 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.

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version 1.2
### Workscope

**LM2500**

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- **Borescope inspection**
  - High pressure compressor (using electronic turning tool)
  - Combustor and Stage 1 HPT Nozzle (including Premixer inspection)
  - High pressure turbine (using electronic turning tool)

- **Stage 1 mid span damper inspection**

- **GG/GT visual exterior inspection**
  - Tubing, hoses and electrical harnesses
  - Inlet duct and centerbody
  - Transfer gearbox
  - Accessory gearbox
  - Compressor front frame
  - Compressor stator and variable vane components
  - Compressor rear frame
  - Turbine mid frame
  - Power turbine stator case
  - Turbine rear frame
  - Accessories
  - GT mounts

- **Compressor inlet inspection**
  - Filter house
  - Silencers
  - Inlet plenum

- **Engine enclosure inspection**

- **Exhaust inspection**
  - Exhaust duct inspection
  - PT stage 6 blade inspection
  - Diffuser inspection

- **Lube and scavenge pump inspection**
  - L&S pump inlet screens will be inspected
  - (Magnetic) plug or chip detector inspection

- **Synthetic lube oil analysis**

- **Fuel system visual inspection**

- **Fuel nozzle visual inspections**
  - Two fuel nozzles will be removed for visual inspection
  - Tip wear measurements

- **T4.8/T5.4 inspection**
  - Visual inspection
  - Resistance check

- **P4.8/P5.4 visual inspection**

- **Hydraulic control unit filter inspection (HCU)**

- **Sight glasses cleaning**

- **Igniter visual inspection**

- **CRF/diffuser replace mounting bolts**
  - Four mounting bolts will be removed for inspection, based on those findings it is decided if all mounting bolts will be inspected

- **High pressure recoup check (running engine)**

- **Bearing 7b thrust balance check (running engine)**

- **VSV schedule check (running engine)**

- **Pneumatic/gas starter inspection**
  - (if applicable for client configuration)

- **Supply and scavenge lube filter inspection**

- **Gas y-strainer inspection**
  - (if installed)

- **Non-return valve inspection**
  - (if applicable for client configuration)

- **Gas turbine starter oil return line screen inspection**
  - (if applicable for client configuration)