

## 1. Introduction to Line Maintenance

Line maintenance refers to routine checks and minor repairs performed between scheduled flights. These tasks ensure aircraft airworthiness and compliance with safety regulations without removing the aircraft from service for extended periods.

Engine line maintenance focuses on inspection, servicing, and troubleshooting of engine-related components.

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## 2. Engine Visual Inspection Checklist

Before each flight, maintenance personnel must perform a thorough visual inspection of the engine, including:

- Fan blades for cracks, dents, or foreign object damage (FOD)
- Engine cowling security
- Oil leaks around the engine core
- Condition of exhaust area
- Proper installation of engine inlet covers (if applicable)

Any abnormality must be reported and corrected before flight.

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## 3. Engine Oil Servicing Procedure

### Required Tools

- Approved engine oil
- Oil servicing cart
- Torque wrench
- Clean rags

### Procedure

1. Verify engine oil quantity using the oil level indicator.
2. Add oil only if quantity is below minimum limit.
3. Do not exceed maximum oil quantity.
4. Secure oil filler cap and torque as specified.
5. Clean any spilled oil.

6. Record oil servicing in maintenance logbook.

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#### **4. Common Engine Fault Indications**

- High exhaust gas temperature (EGT)
- Oil pressure fluctuations
- Abnormal vibration
- Unusual engine noise
- Oil consumption exceeding limits

Immediate troubleshooting is required if any fault indication is observed.

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