**SPECIFICATION SHEET OF ENGINE**

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| 1 | **Engine** | | |
| Make | **:** |  |
| Model | **:** |  |
| Type | **:** |  |
| Name & address of manufacturer in full | **:** |  |
| Country of origin | **:** |  |
| Year of manufacture | **:** |  |
| Engine serial No | **:** |  |
| Max. Torque, Nm | **:** |  |
| Speed at max. Torque, rpm | **:** |  |
| Maximum Power, kW | **:** |  |
| Engine speed corresponding to Max. Power, rpm | **:** |  |
| Rated power, kW | **:** |  |
| Engine speed corresponding to Rated Power, rpm | **:** |  |
| Engine speed (Manufacturer’s Recommended settings) | **:** |  |
| Recommended high idle speed, rpm | **:** |  |
| Recommended low idle speed ,rpm | **:** |  |
| Recommended Rated speed, rpm | **:** |  |
| 2 | **Cylinder and cylinder head** | | |
| Number | **:** |  |
| Disposition | **:** |  |
| Bore/Stroke ,mm | **:** |  |
| Capacity , cc | **:** |  |
| Compression ratio | **:** |  |
| Type of cylinder head | **:** |  |
| Type of cylinder liner | **:** |  |
| Type of combustion chamber | **:** |  |
| Arrangement of valves | **:** |  |
| Valve clearance, mm | **:** |  |
| Inlet | **:** |  |
| Exhaust | **:** |  |
| 3 | **Fuel system and Ignition system** | **:** |  |
| Type of fuel system | **:** |  |
| Type, make & model of feed pump | **:** |  |
| Type, make & model of fuel filter | **:** |  |
| Capacity of fuel tank, l | **:** |  |
| Type of ignition | **:** |  |
| Magneto contact breaker point gap, mm | **:** |  |
| Ignition timing | **:** |  |
| 4 | **Fuel Injection pump** | | |
| Make model & type | **:** |  |
| Serial number | **:** |  |
| 5 | **Fuel injector** | **:** |  |
| Make & Model | **:** |  |
| Type | **:** |  |
| Manufacturer’s production pressure setting , Mpa | **:** |  |
| Injection timing | **:** |  |
| Firing order | **:** |  |
| 6 | **Governor** | **:** |  |
| Make & Model | **:** |  |
| Type | **:** |  |
| 7 | **Spark plug** | | |
| Make | **:** |  |
| Electrode gap, mm | **:** |  |
| 8 | **Carburettor** | **:** |  |
| Make | **:** |  |
| Type | **:** |  |
| 9 | **Air intake system** | **:** |  |
| Type, make &model of pre Cleaner | **:** |  |
| Type, make &model of Air Cleaner | **:** |  |
| Oil capacity(Oil bath type) | **:** |  |
| Range of suction pressure (mm of hg) | **:** |  |
| Recommended grade of oil | **:** |  |
| Recommended service schedule | **:** |  |
| 10 | **Lubrication system** | **:** |  |
| Type | **:** |  |
| Number of filter | **:** |  |
| Type of lubricating oil pump | **:** |  |
| Capacity of lubricating oil pump at rated engine speed (l/min.) | **:** |  |
| Relief valve setting Oil capacity(l) | **:** |  |
| Recommended grade of lubricating oil | **:** |  |

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|  | Oil change period(h) | **:** | First change after..........hrs then subsequent changes after every ...... hours of operation |
| Minimum permissible lubricating oil pressure, kg/cm2 | **:** |  |
| Maximum permissible lubricating oil temperature, oC | **:** |  |
| Details of cooling arrangement if any  provided | **:** |  |
| 11 | **Cooling System** | **:** |  |
| Type | **:** |  |
| Coolant pump/blower size & capacity | **:** |  |
| Coolant capacity(l) | **:** |  |
| Means of temperature control | **:** |  |
| Pressure of radiator cap (kPa) | **:** |  |
| Maximum permissible coolant temperature, oC | **:** |  |
| 12 | **Starting system** | **:** |  |
| Type | **:** |  |
| Capacity of Starter | **:** |  |
| 13 | **Electrical System** | **:** |  |
| Type, make & capacity of battery | **:** |  |
| Type make & Model of starter | **:** |  |
| Type make & Model of generator | **:** |  |
| Serial number & output rating of Generator | **:** |  |
| 14 | **Engine discard limits** | | |

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| --- | --- | --- |
| **Sl. No** | **Engine Component** | **Discard limit** |
| 1 | Cylinder bore dia (mm) |  |
| 2 | Piston dia (mm) |  |
| 3 | Ring-end gap (mm): |  |
| -Top compression ring |  |
| -2nd compression ring |  |
| -3rd compression ring |  |
| - Oil ring |  |
| 4 | Ring groove clearance (mm): |  |
| -Top compression ring |  |
| -2nd compression ring |  |
| -3rd compression ring |  |
| - Oil ring |  |
| 5 | Clearance of big end bearings (mm) |  |
| - Diametrical |  |
| - Axial |  |
| 6 | Crankshaft end float (mm) |  |
| 7 | Backlash of timing gears |  |
| 8 | Backlash of primary gear box gears |  |
| 9 | Backlash of secondary gear box gears |  |
| 10 | Overall thickness of clutch plate (mm) |  |

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| --- | --- | --- | --- |
|  | Place |  | |
|  | Date |  |  |
|  |  | Signature |  |
|  |  | Name of signatory |  |
|  |  | Designation |  |
|  |  | Name & address of firm |  |