



Enriching Lives

Engine Materials & Construction

Kirloskar Oil Engines Limited
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Basic Engine Model:
KFP4R-UF15

Revision Date: 25.06.09
Reference No.: EMC - UF15 - 00

Air Cleaner

Type : Dry type
Material : Pleated Paper
Housing : Enclosed

Crankshaft

Material : 39 Cr 5 V
Type of Balance : Balance weight attached

Camshaft

Material : Chilled CI
Location : Inside Crankcase
Drive : Gear, Helical
Type of Cam : Cam Ground

Coolant Pump

Type : Centrifugal
Drive : Belt

Coolant Thermostat

Type : Spring Loaded
Quantity : 1

Connecting Rod

Type : 45 Angular Split
Material : 39 Cr5V

Crank Pin Bearings

Type : Bi-metallic
Number : 4
Material : Copper-Lead with overlay plating

Cylinder Block

Type : Modular
Material : Gray CI Grade FG200

Piston Pin

Type : Modular
Material : Gray CI Grade FG200

Piston Rings

Number Per Piston : 3
Top : Chrome Inlaid Keystone
Second : Taper Compression
Third : Chrome Confirmable

Cylinder Head

Type : Integral Type
Material : Gray CI- Grade FG260

Cylinder Liners

Type : Wet Liner
Material : Gray CI- Grade FG150

Valves

Type : Poppet
Arrangement : Overhead Valve
Number per Cylinder : 1 Intake & 1 Exhaust
Operating Mechanism : Mechanical Rocker Arm
Type of Lifter : Flat Follower
Valve Seat Insert : Replaceable

Fuel Pump

Type : P type
Drive : Gear Drive

Heat Exchanger

Type : Tube & Shell
Materials, Tube & Shell
Shell : Brass
Electrode : Brass

Injection Pump

Type : P type Inline Pump
Drive : Gear Drive

Lubrication Cooler & Pump

Cooler Type : Plate Type
Pump, Type : G-Rotor
Drive : Gear Drive

Main Bearings

Type : Bi-metallic
Material : Copper-Lead with overlay plating

Piston

Type and Material : Al Alloy
Cooling : Jet Oil Cooling

Charge Air Cooler

Cooler Type : Raw Water Cooled
Materials
Tubes : Copper
Header : M.S.
Side Frame : M.S.