



Enriching Lives

## Engine Materials & Construction

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**Basic Engine Model:**  
**KFP6S-UF35**

Revision Date: 25.06.09  
Reference No.: EMC - UF35 - 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.