Fire Pump Engine
709-795 bkW/950-1065 bhp
@ 1460-1750 rpm

STANDARD ENGINE EQUIPMENT

### Air Inlet System
Air cleaner, regular-duty with service indicators turbocharger, watercooled, rear-mounted

### Charging System
Charging alternator 24V, 35A

### Control System
Governor, RH, 3161 with self-contained synthetic oil sump, air-fuel ratio control, mechanical speed control, without torque control

### Cooling System
Thermostats and housing
Jet water pump, gear-driven, centrifugal, RH
Heat exchanger (installed) — max 61°F coolant temperature capacity (consult factory for higher supply water coolant temperature)
Expansion tank

### Exhaust System
Exhaust manifold — air-shielded, watercooled
Exhaust elbow, dry 203 mm (8 in) ID

### Flywheels and Flywheel Housing
Flywheel — SAE No. 0, 151 teeth
Flywheel housing — SAE No. 0
SAE standard rotation

### Fuel System
Fuel filter, with service indicators, cartridge-type with RH service
Fuel transfer pump
Primary fuel filter (shipped loose)

### Instrumentation
Instrument panel, RH
Engine oil pressure and fuel pressure gauges

### Lube System
Crankcase breather, top-mounted
Oil cooler
Oil filter and dipstick, RH
Oil pump
Oil filter, cartridge-type with RH service
Shallow oil pan

### Mounting System
Rails, mounting, engine length, 330 mm (13 in), C-channel

### Power Take Off
Accessory drive, upper RH
Flywheel stub shaft
Front housing, single-sided

### Protection System
Junction box
Manual shutoff, RH
Stop-start system, automatic (compatible with NFPA 20 requirements, energizable from either of two battery sources and capable of manual starter actuation)

### Starting System
Jacket water heater, dual (12 kW total, 240-480V)
Single 24V electric starting motor, LH
Starting switch

### General
Paint, red engine with black rails
Vibration damper and guard
Lifting eyes

**FEATURES**

- Proven reliability and durability
- Robust diesel strength design prolongs life and lowers owning and operating costs
- Market-leading power density
- Core engine components designed for reconditioning and reuse at overhaul

**Testing**
Every Cat® engine is full-load tested to ensure proper engine performance

**World-class Product Support Offered Through Global Cat Dealer Network**
- More than 2,200 dealer outlets
- Cat factory-trained dealer technicians service every aspect of your engine
- Cat parts and labor warranty
- Preventive maintenance agreements available for repair-before-failure options

**CAT® ENGINE SPECIFICATIONS**

<table>
<thead>
<tr>
<th>V-8, 4-Stroke-Cycle Diesel</th>
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<tbody>
<tr>
<td>Emissions</td>
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<tr>
<td>Bore</td>
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<tr>
<td>Stroke</td>
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<tr>
<td>Displacement</td>
</tr>
<tr>
<td>Aspiration</td>
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<tr>
<td>Rotation (from flywheel end)</td>
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</tbody>
</table>

### Refill Capacity
- Cooling System: 114 L (30 U.S. gal)
- Lube Oil System: 227 L (60 U.S. gal)
- Oil Change Interval: 1 year
- Flywheel and Flywheel Housing: SAE No. 0
- Flywheel Teeth: 151

### S•O•S SM program matches your oil and coolant samples against Caterpillar set standards to determine:
- Internal engine component condition
- Presence of unwanted fluids
- Presence of combustion by-products
- Site-specific oil change interval

**Over 80 Years of Engine Manufacturing Experience**
Ownership of these manufacturing processes enables Caterpillar to produce high quality, dependable products.
- Manufacturing of cast engine blocks, heads, cylinder liners, and flywheel housings
- Machining of critical components
- Complete engine assembly

**Web Site**
To learn more about Cat fire pump engines, visit www.catoilandgasinfo.com or www.cat-industrial.com.

**Paint, red engine with black rails**

Actual configuration may vary from displayed image

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DIMENSIONS

Engine Dimensions

<p>| | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>(1) Length</td>
<td>2350 mm</td>
</tr>
<tr>
<td>(2) Width</td>
<td>1744 mm</td>
</tr>
<tr>
<td>(3) Height</td>
<td>1902 mm</td>
</tr>
<tr>
<td>Weight — dry (approx.)</td>
<td>5355 kg</td>
</tr>
</tbody>
</table>

Note: For general dimensions only, not actual configuration. Do not use for installation design. See general dimension drawings for detail.

RATING DEFINITIONS AND CONDITIONS

Standby Fire Pump — Ratings represent the output which may be utilized to drive stationary fire pumps where the pumping equipment has been sized according to NFPA 20 standards.

Rating Conditions are based on SAE J1995, inlet air standard conditions of 99 kPa (29.31 in Hg) dry barometer and 25°C (77°F) temperature. Performance measured using a standard fuel with fuel gravity of 35° API having a lower heating value of 42,780 kJ/kg (18,390 btu/lb) when used at 29°C (84.2°F) with a density of 838.9 g/L.