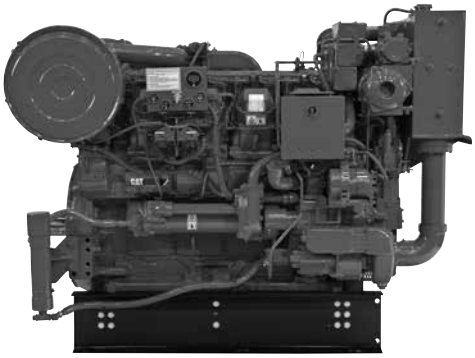
3508
Fire Pump Engine
709-795 bkW/950-1065 bhp
@ 1460-1750 rpm



Actual configuration may vary from displayed image

CAT® ENGINE SPECIFICATIONS

V-8, 4-Stroke-Cycle Diesel

Emissions	Non-certified
Bore	170 mm (6.7 in)
Stroke	190 mm (7.5 in)
Displacement	34.5 L (2105 in^3)
Aspiration	Turbocharged-Aftercooled
Rotation (from flywheel end)	Counterclockwise
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

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
- S•O•S℠ 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.

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
Jacket 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
Ammeter gauge, jacket water temperature gauge
Service meter, electric
Tachometer

Lube System
Crankcase breather, top-mounted
Oil cooler
Oil filler 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

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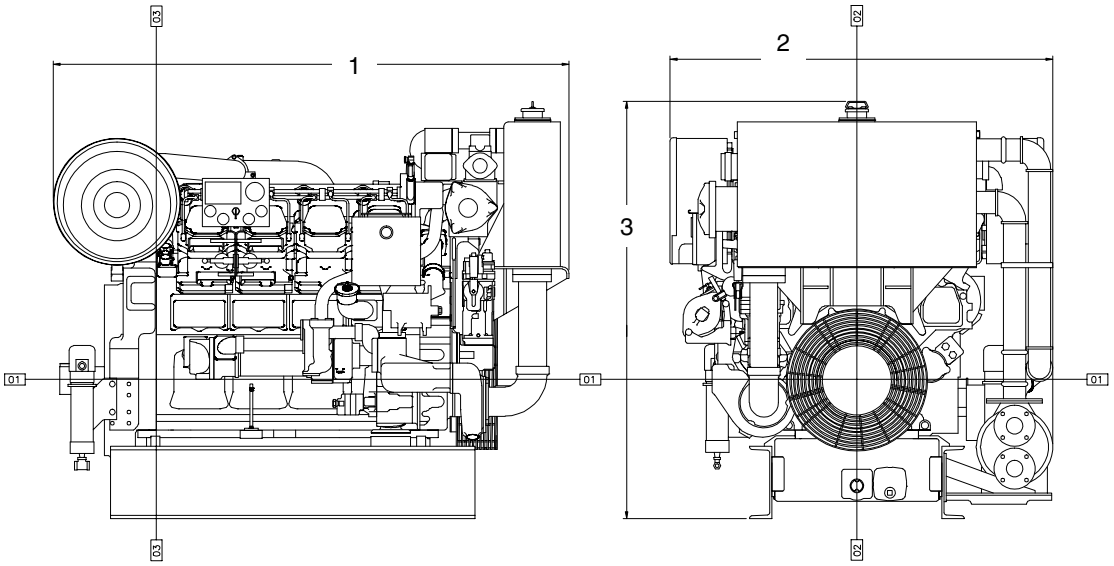
DIMENSIONS



Engine Dimensions		
(1) Length	2350 mm	92.5 in
(2) Width	1744 mm	68.7 in
(3) Height	1902 mm	74.9 in
Weight — dry (approx.)	5355 kg	11,806 lb

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.