

**General**

Cylinders	6	
Cylinder arrangement	Vertical in-line	
Bore	102 mm	4.0 in.
Stroke	132 mm	5.2 in.
Cylinder Displacement	1.078 liter	65.8 in. <sup>3</sup>
Total displacement	6.472 liter	394.9 in. <sup>3</sup>
Compression ratio	17.0:1	
Combustion system	Direct injection	
Aspiration	Turbocharged	

**Fuel system**

Lift pump suction head, max	1.0 m	39.4 in.
Lift pump flow @ max rpm	117.0 l/h	30.9 GPH
Max restriction in fuel supply line	200 mbar	80 in. H <sub>2</sub> O
Max restriction in fuel return line	200 mbar	80 in. H <sub>2</sub> O
Max restriction in fuel pre-filter	200 mbar	80 in. H <sub>2</sub> O
Fuel filter type	Replaceable cartridge	
Fuel consumption @ max rating	39.0 l/h	10.3 GPH
Fuel consumption @ peak torque	28.5 l/h	7.5 GPH

**Combustion air system**

Combustion air flow @ max rating	752.0 m <sup>3</sup> /h	442.6 CFM
Max allowable clean restriction	50 mbar	20 in. H <sub>2</sub> O
Max allowable dirty restriction	75 mbar	30 in. H <sub>2</sub> O

**Exhaust system**

Exhaust gas flow @ max rating	2411.0 m <sup>3</sup> /h	1418.9 CFM
Exhaust temp @ max rating	490 °C	914 °F
Max allowable back pressure	75 mbar	30 in. H <sub>2</sub> O

**Cooling system**

Type	Integrated air cooling	
Cooling air flow rate @ max rpm	7460.0 m <sup>3</sup> /h	4390.2 CFM
Max inlet air temp rise over ambient	10 °C	18 °F
Discharge air temp rise over inlet	55 °C	99 °F
Cowling pressure:		
Max loss due to inlet duct	10 %	
Max loss due to discharge duct	10 %	

**Lubrication system**

Lubrication type	Forced-feed lubrication	
Oil flow at max rpm	80.0 l/min	21.1 GPM
Oil pump relief valve setting	5.5 bar	79.8 psi
Max oil temperature in oil sump	130 °C	266 °F
Filter volume	1.5 liter	1.6 qt.
Oil change interval	250 hours	

**Electrical**

Starter motor	12V, 3.1kW	24V, 4.0kW
Max battery CCA	1250A	750A
Voltage drop, battery (+), max	1.0V	

**Physical data**

Length	1352 mm	53.2 in.
Width	714 mm	28.1 in.
Height	876 mm	34.5 in.
Weight, dry	510 kg	1122 lb.
Max bending @ housing:	800 Nm	589.6 lb-ft
Max force @ flywheel:		
Axial:	3000 N	675.7 lb.
Radial:	4000 N	900.9 lb.

**Performance data**

Peak torque	700 Nm	515.9 lb-ft
@ rpm	1600	
low idle speed	650 rpm	

**Net power**

Engine RPM	1500	1800	2000	2150	2300	2500
kW, intermittent	111.0	121.0	126.0	132.0	141.0	
Hp, intermittent	151.0	164.6	171.4	179.5	191.8	
kW, continuous	99.0	108.0	112.0	118.0		
Hp, continuous	134.6	146.9	152.3	160.5		

**Fuel consumption**

g/kWhr	220.0	223.0	227.0	233.0	242.0
lb/hphr	0.361	0.366	0.372	0.382	0.397

**Combustion air**

m <sup>3</sup> /h	515.0	587.0	637.0	684.0	752.0
CFM	303.1	345.4	374.9	402.5	442.6

**Exhaust gas @ 500° C**

m <sup>3</sup> /h	1582.0	1855.0	2040.0	2165.0	2411.0
CFM	931.0	1091.7	1200.5	1274.1	1418.9

**Cooling air**

m <sup>3</sup> /h	5370.0	5970.0	6415.0	6865.0	7460.0
CFM	3160.2	3513.3	3775.2	4040.1	4390.2

**Noise, dB(A)**

Avg. @ 1 meter	95.9	97.2	98.4	100.4	103.2
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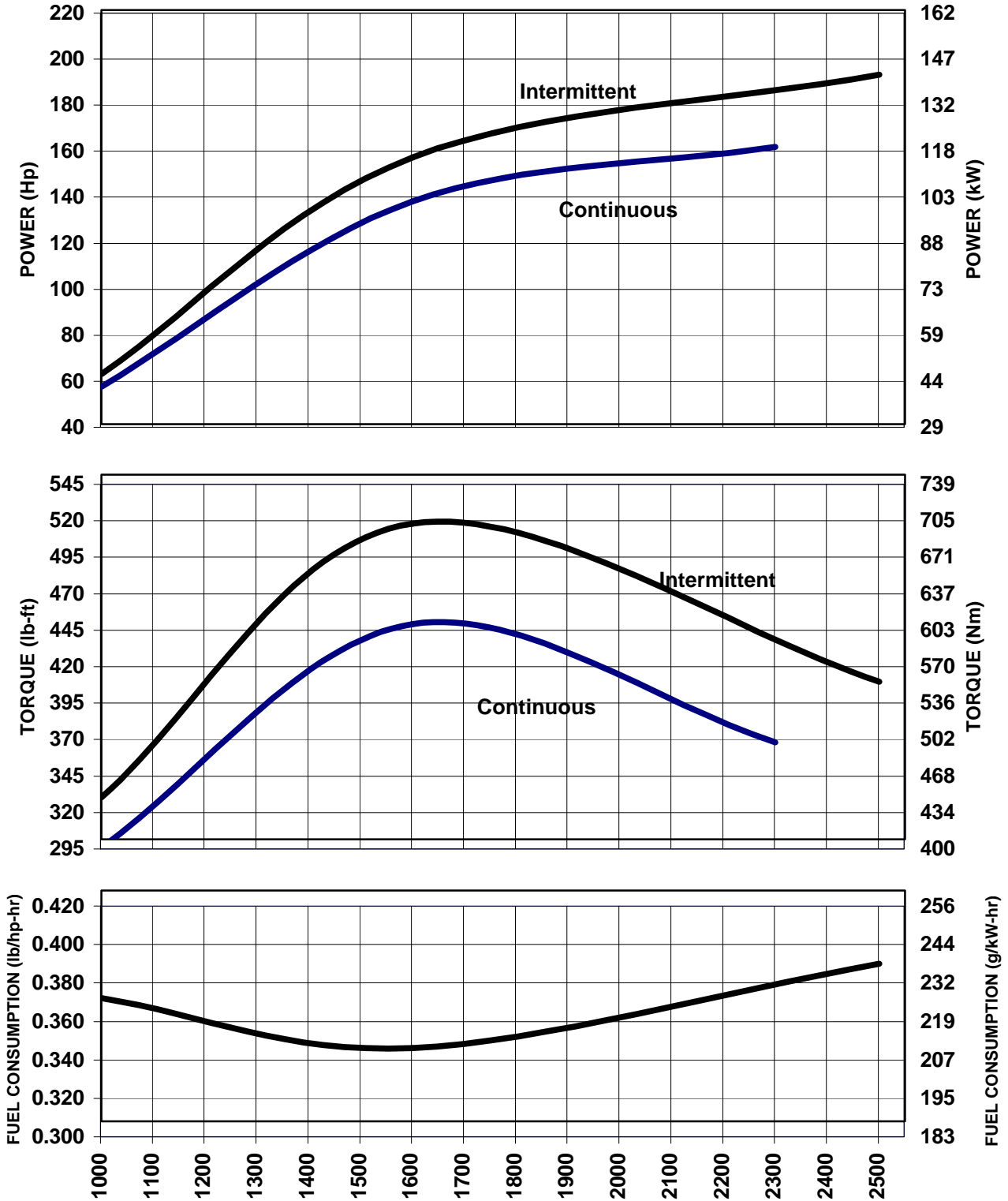
**Certifications**

U. S. EPA Non-road Tier 2  
California ARB Non-road  
European COM 2

# ENGINE PERFORMANCE CURVES

ENGINE MODEL  
 RATING STANDARD  
 RATED INTERMITTENT POWER  
 MAX. TORQUE  
 EMISSION CERTIFICATION

BF6L914C  
 ISO 3046  
 191.8 Hp at 2500 rpm  
 511.5 lb-ft at 1600 rpm  
 EPA Tier 2/COM 2



Tolerance: +/- 5% per ISO 3046  
 Reference conditions: 25 °C (77 °F) 99 kPa (29.31 in. Hg)  
 Fuel: 40 °C (104 °F) 0.850 kg/l (7.07 lb/gal)

Document: BF6L914C\_EPA2  
 Date: 07 Nov 2003  
 Name: Oldham

Curves are based on current data and are subject to change without notice.