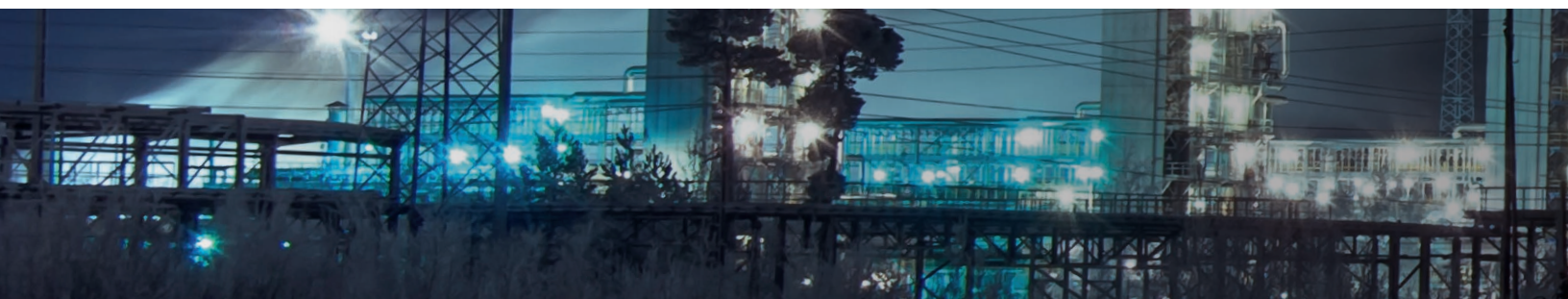
KUBOTA ENGINES FOR THE OIL & GAS MARKET

BUILT TO WITHSTAND YOUR HARSHEST WORKING CONDITIONS.

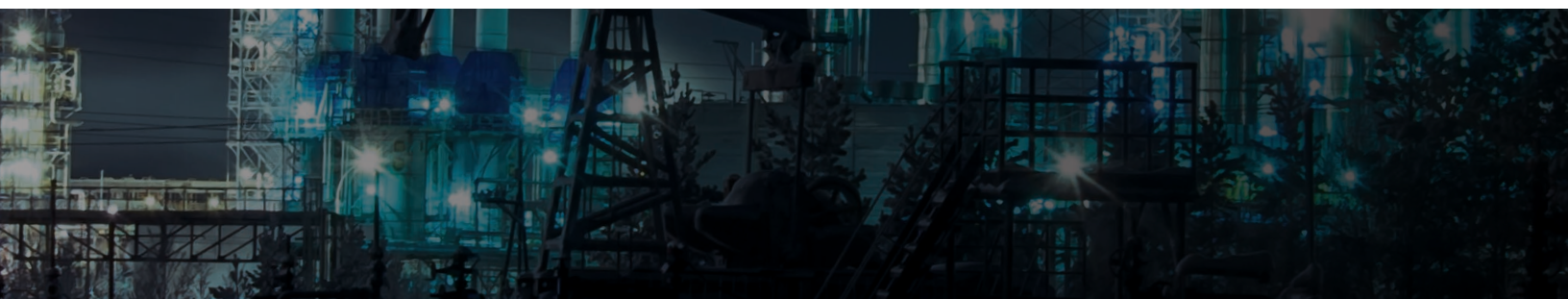
Kubota

TECHNICAL DATA		UNITS
Number of Cylinders		
Cylinder Arrangement		
Aspiration		
Bore		mm (in)
Stroke		mm (in)
Compression Ratio		
Total Engine Displacement		L (cu. in.)
Certification (U.S. 49 State + CARB)		
Fuel Type		
Maximum Output (Gross Int SAE J1995)		kW (HP) / rpm
Maximum Output (Net Int SAE J1349)		kW (HP) / rpm
Maximum Output (Net Continuous SAE J1349)		kW (HP) / rpm
VARIABLE	Rated Speed	rpm
	Low Idle Speed	rpm
	Max Torque (Net Int SAE J1349)	Nm (lbf·ft) / rpm
	Gas Consumption* (Industrial Variable Speed at Rated Speed / Rated Load) Japanese standard gas lower heating value: 9699 kcal/m^3 (1090 BTU/ft^3)	lb/Hp-hr
	Maximum Intake Restriction w/ Clean Filter (Industrial Variable Speed at Rated Speed / Rated Load)	kPa
GENERATOR	Continuous Output Rating, 50 Hz / Fixed Speed	kW (HP) / rpm
	Continuous Output Rating, 60 Hz / Fixed Speed	kW (HP) / rpm
	Gas Consumption* (Generator Spec at 1800 RPM / Rated Load)	lb/Hp-hr
		BTU/Hp-hr
	Maximum Intake Restriction w/ Clean Filter (Generator Spec at 1800 RPM / Rated Load)	kPa
Minimum Wobbe Index Value		BTU/scf
Maximum Wobbe Index Value		BTU/scf
Max Fuel Pressure at Electronic Pressure Regulator		kPa
Maximum Fuel Supply Line Pressure to Lock Off Valve / DSR		
Dimensions		L x W x H mm (in)
Dry Weight		kg (lb)

**Actual engine power may be lower due to lower fuel BTU value.*

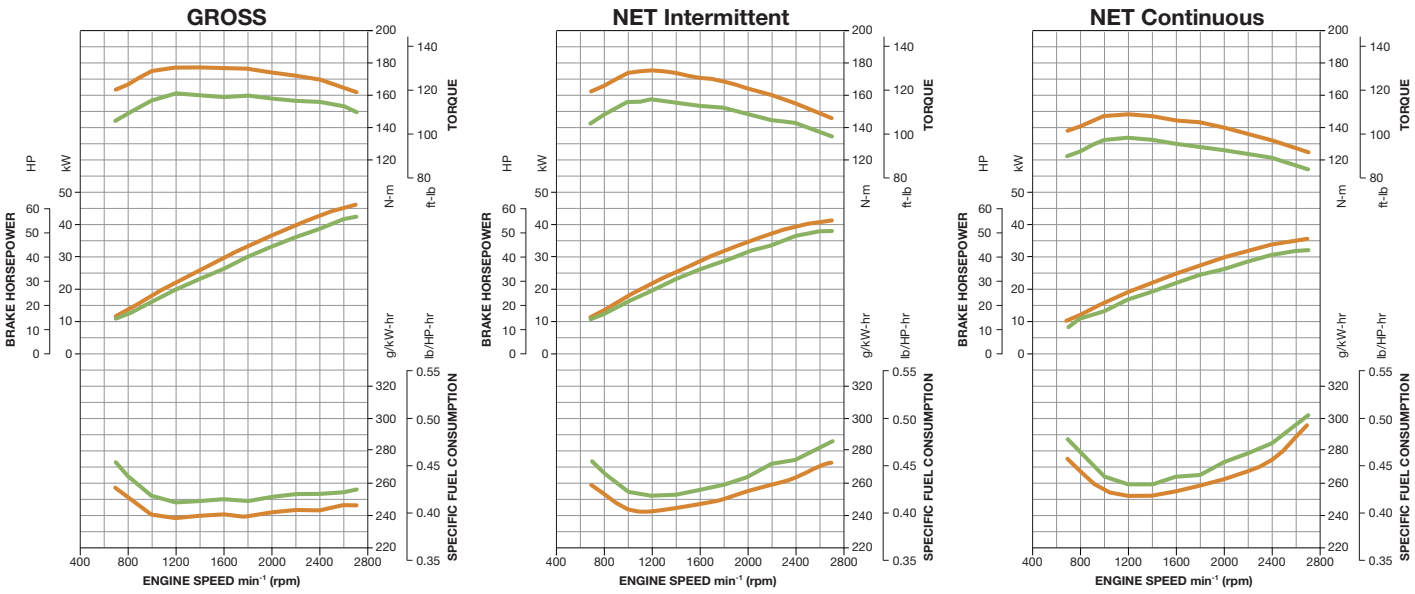


WG2503-LN-E3		WG3800-LN-E3	
4 Cylinder		4 Cylinder	
Vertical, In-line, Water Cooled		Vertical, In-line, Water Cooled	
Naturally Aspirated		Naturally Aspirated	
88.0 (3.46)		100.0 (3.94)	
102.4 (4.03)		120.0 (4.72)	
9.2:1		10.0:1	
2.491 (152.01)		3.769 (206.20)	
Phase 3		Phase 3	
Natural Gas	Commercial LPG	Natural Gas	Commercial LPG
42.4 (56.8) / 2700	46.0 (61.7) / 2700	65.0 (87.1) / 2600	70.0 (93.8) / 2600
38.0 (51.0) / 2700	41.5 (55.6) / 2700	57.8 (77.5) / 2600	62.2 (83.3) / 2600
32.3 (43.3) / 2700	35.3 (47.3) / 2700	49.1 (65.8) / 2600	52.9 (70.8) / 2600
2700		2600	
800		800	
158 (117) / 1200	173.7 (128.1) / 1400	262.0 (193.2) / 1200	282.5 (208.4) / 1200
0.470	0.449	0.421	0.439
3.10 @ 2700 RPM		3.33 @ 2600 RPM	
20.7 (27.8) / 1500	23.1 (31.0) / 1500	34.3 (46.0) / 1500	37.0 (49.6) / 1500
24.4 (32.7) / 1800	24.8 (33.2) / 1800	40.7 (54.6) / 1800	43.8 (58.7) / 1800
0.427	0.411	0.380	0.395
8967	8877.6	7980	8532
1.66 kPa @ 1800 RPM		1.70 kPa @ 1800 RPM	
1090	-	1090	-
1640	-	1640	-
< 5 kPa	-	< 5 kPa	-
5 kPa - 1 Mpa	-	5 kPa - 1 Mpa	-
759.2 x 524.8 x 760.9 (29.9 x 20.7 x 30.0)		834.9 x 595.41 x 825 (32.9 x 23.4 x 32.5)	
196 (432)		305 (672)	



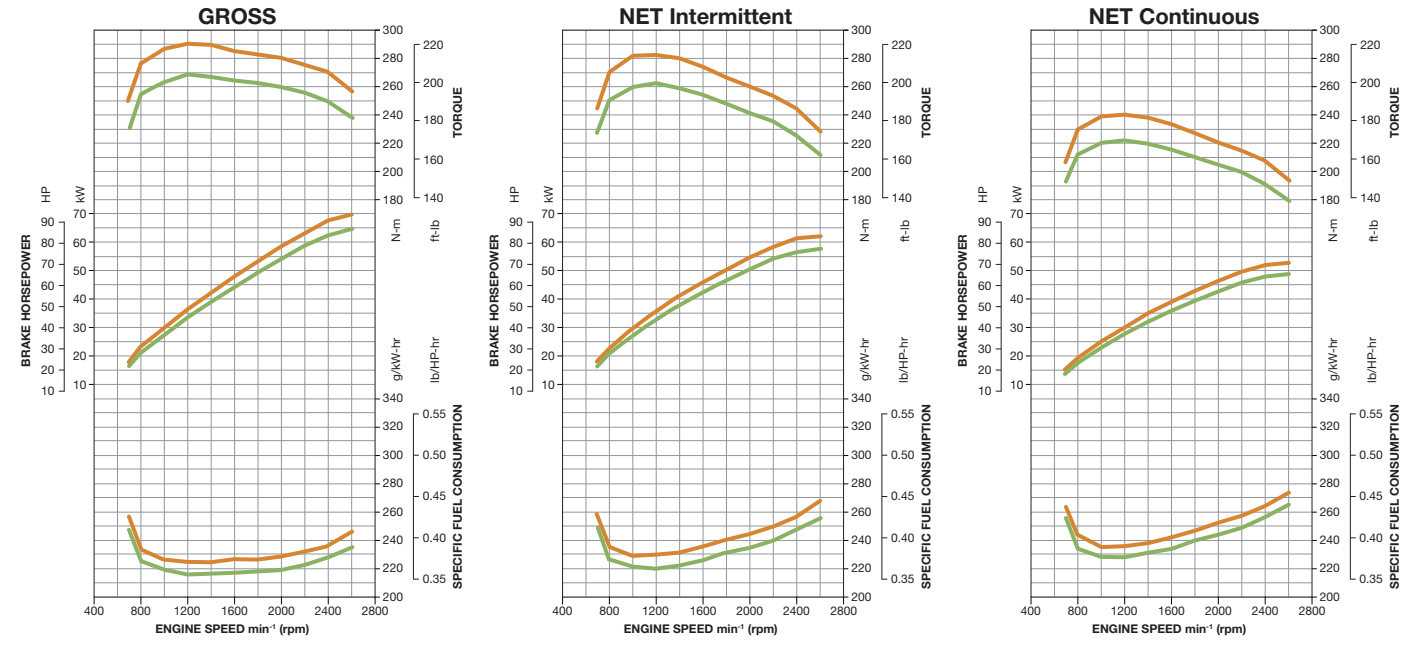
WG2503-LN-E3

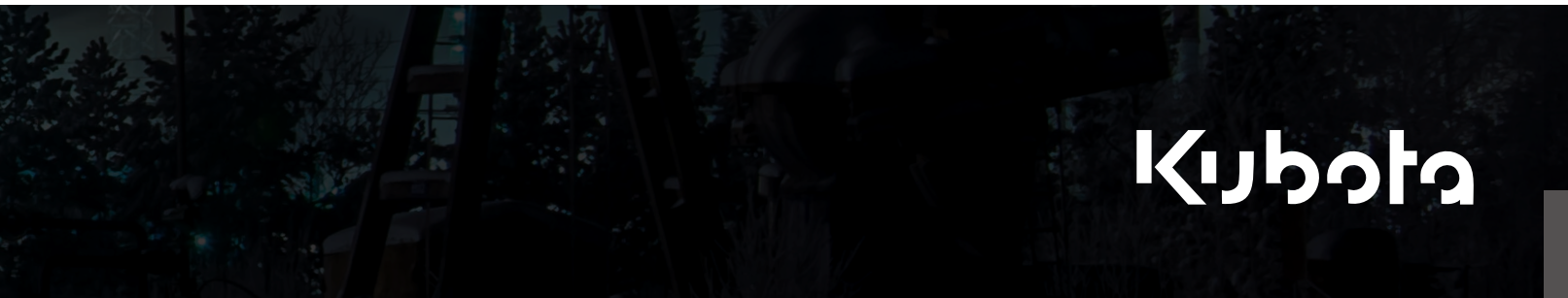
LPG NG



WG3800-LN-E3

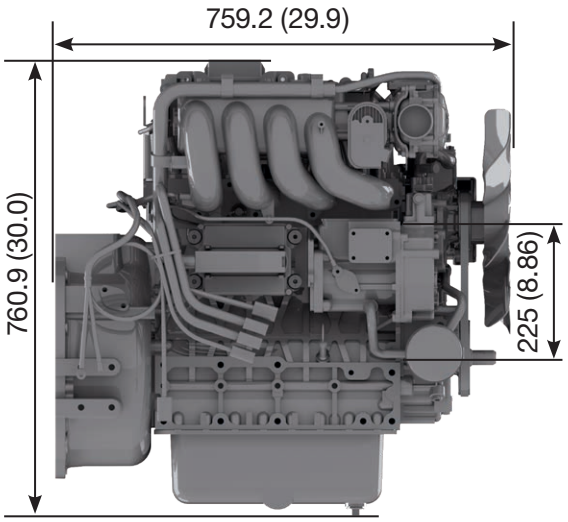
LPG NG



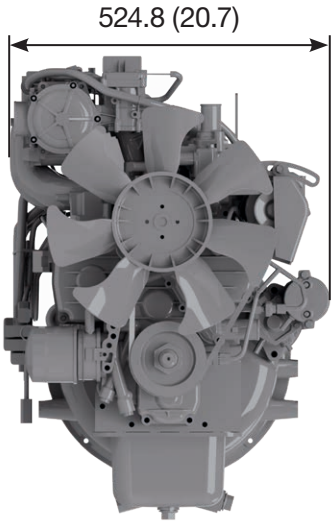


WG2503-LN-E3

mm (in)

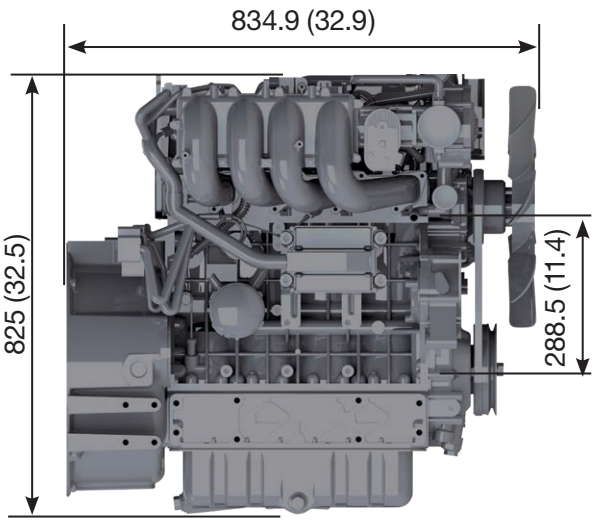


Shown with the SAE #4 Normal FWH + SAE #10 Normal FW for variable speed engine

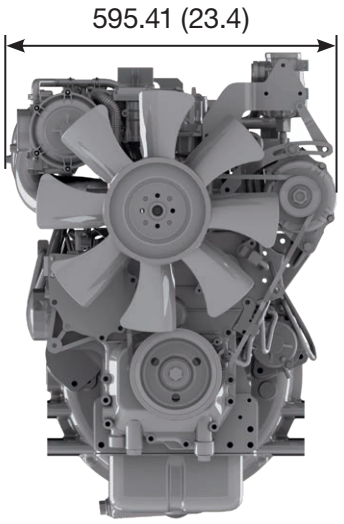


WG3800-LN-E3

mm (in)



Shown with the SAE #3 Normal FWH + SAE #10/11.5 Normal FW for variable speed engine



DURABILITY AND PERFORMANCE FOR THE OIL & GAS MARKET

Built for the harsh environments found in oil and gas fields, the versatile and powerful family of Kubota natural gas engines shares many of the same components found in their venerable, heavy–duty industrial diesel counterparts. Durable, versatile and flexible, these engines are designed and warranted for wellhead gas operations, and they reliably power artificial lift systems, vapor recovery units, compressors, generators and many other applications – with either natural gas or propane.

When you count on continued production, count on Kubota. Ask your distributor about the right engine for your operation.

Zero-Maintenance Valve Timing Control

Standard on Kubota WG2503 and WG3800 engines, the rugged helical front gear train is zero-maintenance, heavy-duty valve timing control. It is superior to timing belt or chain designs, which require regular maintenance and can lead to major engine failure.

Water-Resistant Ignition-System Connectors

For trouble-free operation in all climates, the state-of-the-art ignition system includes tough, water-resistant connectors to ensure an easy startup, day after day.

Premium Valve Materials with Cast Iron Cylinder Head

High-temperature alloy exhaust valves and seats are fitted into our robust cast iron cylinder head for an even more reliable engine life. These wear- and corrosion-resistant parts are especially important for wellhead duty.

Manufacturer of Record

Kubota is the manufacturer of record for this family of engines. The benefit to the customer is having a turnkey solution. In fact, Kubota emission levels for this engine line are lower than US EPA/CARB Phase 3 certified limits – an important factor in engine selection since more stringent regulations than EPA or CARB exist in some California Air Quality Districts and Non-attainment areas throughout the United States.

Knock Protection

A knock sensor in WG2503 and WG3800 engines protects from damage caused by detonation or knock caused by fixed spark advance. The sensor detects detonation through mechanical vibration in the engine block, cylinder or head. It sends instant feedback to the ignition system in order to retard spark, reduce knock intensity and protect the engine.

Coil-On-Plug Ignition

The coil-on-plug design on Kubota WG2503 and WG3800 engines eliminates spark plug wires, increasing reliability and lowering your maintenance costs. Kubota spark plug replacement intervals are 2,000 hours.

Two-Year, 2,000-Hour Limited Warranty

Rest easy knowing your Kubota engine is backed by the manufacturer against defects in materials and workmanship for two years or 2,000 hours, whichever comes first.

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Kubota