



powering marine safety

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Service Information

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Application of Shell GTL Fuel

After satisfying results in real life tests and on our test bench we are pleased to declare that Shell GTL (Gas-to Liquids) fuel is approved for use on our BUKH type DV diesel engines.

According to the manufacturer Shell GTL Fuel contains lower levels of aromatics, poly-aromatics, olefins, sulphur and nitrogen than conventional diesel. This very high purity means that it is colourless and almost odourless. Shell GTL Fuel is derived from natural gas and due to the unique composition, Shell GTL Fuel has a very high cetane number and burns more cleanly and produces lower emissions compared to conventional crude oil-derived diesel.

Properties Specified in prEN 15940 Class A Compared to EN590

Property	Unit	Test Method	CEN prEN 15940 Class A: 2015		Diesel fuel EN 590: 2013	
			Minimum	Maximum	Minimum	Maximum
Cetane number		EN ISO 5165 EN 15195	70.0	-	51.0	-
Density at 15 °C	kg/m ³	EN ISO 3675 EN ISO 12185	765.0	800.0	820.0	845.0
Total aromatics content	% (m/m)	EN 12916 SIS 155116	-	1.0	-	-
Polycyclic aromatic hydrocarbons content	% (m/m)	EN 12916	-	-	-	8.0
Sulphur content	mg/kg	EN ISO 20846 EN ISO 20884	-	5.0	-	10.0
Flash point	°C	EN ISO 2719	>55 ^a	-	>55	-
Carbon residue (on 10% distillation residue)	% (m/m)	EN ISO 10370	-	0.30	-	0.30
Ash content	% (m/m)	EN ISO 6245	-	0.010	-	0.010
Water content	mg/kg	EN ISO 12937	-	200	-	200
Total contamination	mg/kg	EN 12662	-	24	-	24
Copper strip corrosion (3h at 50 °C)		EN ISO 2160		Class 1		Class 1
Oxidation stability	g/m ³	EN ISO 12205	-	25	-	25
Oxidation stability	hrs	EN 15751 ^c	20	-	20	-
FAME content	% (V/V)	EN 14078	-	7.0 ^b	-	7.0
Lubricity, corrected wear scar diameter (wsd 1,4) at 60 °C	µm	EN ISO 12156-1	-	460	-	460
Viscosity at 40 °C	mm ² /s	EN ISO 3104	2.00	4.50	2.00	4.50
Distillation 95% (V/V) recovered at	°C	EN ISO 3405	-	360	-	360
Distillation % (V/V) recovered at 250 °C	% (V/V)	EN ISO 3405	-	<65	-	<65
Distillation % (V/V) recovered at 350 °C	% (V/V)	EN ISO 3405	85	-	85	-

a) Shell GTL Fuel Marine has a flashpoint minimum >61 - b) Shell GTL Fuel and Shell GTL Fuel Marine are typically FAME-free
 c) When diesel fuel contains more than 2 % (V/V) FAME, oxidation stability as determined by EN 15751 is the requirement
 Note: This table defines Class A of the prEN 15940 specification. Class B accommodates paraffinic diesels which have a lower minimum cetane number (51) and higher density (min: 780 kg/m³ and max: 810 kg/m³), that are made from other processes such as Conversion of Olefins to Distillates (COD).