



Annex No. 1

ULTRA LOW SULPHUR DIESEL EN590 – 10PPM FOR SUPPLY OF 100,000MT x 12 Months

No.	COMPONENT	UNITS	LIMITS	MAX
1	Aspect Color		Clear 2.0	ASTM D1500
2	Cetane Number	n°	51.0 Min	EN ISO 5165:1998
3	Cetane Index	Index	48 Min	EN ISO 4264:1996
4	Density at 15 °C	Kg/m ³	820 Min to 845 Max	EN ISO 3675; EN ISO 12185:96 CI:2001
5	Polycyclic Aromatic Hydrocarbons	% (m/m)	8.0 ⁵ Max	EN ISO 12916:2001
6	Sulphur Content	mg/kg	10.0 Max	EN ISO 20884:2004
7	Flash Point	°C	55 ¹	EN ISO 2719:2002
8	Carbon Residue (on 10% Dist. Residue)	% (weight)	0.15 Max	EN ISO 10370:1995
9	Ash Content	mg KOH/g	0.03 Max	EN ISO 6245:2002
10	Water Content	mg/kg	200 Max	EN ISO 12937:2000 ASRM 2709
11	Total Contamination	mg/kg	15 Max	EN ISO 12662:2002 ASRM D 2709
12	Copper Strip Corrosion (3 Hours at 50 °C)	mg/kg	Class 1	EN ISO 2160:1998
13	Oxidation Stability	g/m ³	20 Min	EN ISO 12205:1996
14	Lubricity, WSD at 60 °C	M ³	460 Max	EN ISO 12156 - 1:2000
15	Viscosity at 40 °C	mm ² /sec	2.00 Min to 4.5 Max	EN ISO 3104:1996
16	Distillation Vol Recovered at: 150 °C 250 °C 350 °C 95% Point	% (V/V) % (V/V) % (V/V) °C	2.0 Max 65.0 Max 85.0 Min 360.0 Max	EN ISO 3405:2000
17	Fatty Acid Methyl Ester (FAME) Content	% (V/V)	5 Max	EN ISO 14078
18	Total Acid Methyl	mg KOH/g	0.3 Max	ASTM D 974
19	Electrical Conductivity ⁴	Ps/m	50 Min	ASTM 2624: ISO 6297
20	Biodiesel Content		0	EN ISO 14078:2003
21	C.F.PP (Summer)	°C	0	EN ISO 116:1997 ASTM 6371 IP 300
22	C.FP.P (Winter)	°C	-10	EN ISO 116:1997 ASTM 6371 IP 300
23	Cloud Point (Summer)	°C	Report	EN 23015:1994 ASTM 2400 ASTM 2271
24	Cloud Point (Winter)	°C		EN 23015:1994 ASTM 2400 ASTM 2271