

**Intertek Caleb Brett**

As per some Xbee users' request, it has been decided to compare a standard kerosene in compliance with the norm Jet A-1 to the same diesel treated with Xbee enzyme biotechnology at a ratio of 4000:1.

Certification



[www.afaq.org](http://www.afaq.org)

ISO 9001:2000



[www.iso.org](http://www.iso.org)

Accreditation



[www.cofrac.fr](http://www.cofrac.fr)

(Program 73 and 74)  
NF EN ISO/CEI 17025

Tests	Methods	Results		Units	Limits
		w/o 1 mo.	w/aft. 1 mo.		
Appearance / color	Visual	Clear & bright	Clear & bright	N/A	Clear & bright
Saybolt color	ASTM D 156	+23	+23	N/A	Report
Particulate cont.	ASTM D 5452	0.26	0.32	mg/l	1.0 max
Acidity	ASTM D 3242	0.001	0.001	mg KOH/g	0.015 max
Aromatics	ASTM D 6379	21.3	21.4	% Vol	25.0 max
Sulphur	ASTM D 2622	0.046	0.045	% masse	0.30 max
Mercaptans	ASTM D 3227	0.0006	0.0005	% masse	0.0030 max
Flash point	IP 170	43.0	43.0	°C	38.0 min
Density at 15°C	ASTM D 4052	794.0	794.1	kg/m³	775.0 min 840.0 max
Freezing point	IP 529	-51.4	-51.5	°C	-47.0 max
Viscosity at -20°C	ASTM D 445	3.772	3.779	cSt	8.000 max
Specific energy	ASTM D 3338	43.26	43.26	MJ/kg	42.80 min
Smoke point	ASTM D 1322	24	25	Mm	25.0 min
Corrosion, Copper strip	ASTM D 130	1	1	N/A	1 max
Thermal stability	ASTM D 3241			-	
Filter pressure diff.	ASTM D 3241	0	0	mm Hg	25.0 max
Depositing rating	ASTM D 3241	< 1	< 1	Visual	< 3 max
Temperature	ASTM D 3241	260	260	°C	260°C min
Existent gum	ASTM D 381	1	1	mg/100ml	7 max
M.S.E.P.	ASTM D 3948	98	93	N/A	70 min
Elec. conductivity 20°C	ASTM D 2624	60	60	pS/m	50 min 600 max
Distillation	ASTM D 86				
Initial point	ASTM D 86	153.4	153.3	°C	Report
10% Vol rec at	ASTM D 86	169.5	169.4	°C	205.0 max
50% Vol rec at	ASTM D 86	195.3	195.3	°C	Report
90% Vol rec at	ASTM D 86	238.7	238.2	°C	Report
End point	ASTM D 86	260.8	262.0	°C	300.0 max
Residue	ASTM D 86	1.1	1.1	% Vol	1.5 max
LosS	ASTM D 86	0.7	0.7	% Vol	1.5 max
Napthalenes	ASTM D 1840	0.70	0.72	% Vol	3.00 max

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