

FUEL REPORT

Sample Rating Trend

ISO

NO UNIT 02592778

Diesel Fuel

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)

DIAGNOSIS

Recommendation

Laboratory test indicate that this fuel is suitable for use and meets all test requirements. We advise that you filter this fluid before use. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Corrosion

{not applicable}

Contaminants

There is a moderate amount of silt (particulates < 14 microns in size) present in the fuel. The water content is negligible.

Fuel Condition

All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel (US EPA/CGSB-3.517-3 type B). The fuel is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

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SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PP		
Sample Date		Client Info		29 Oct 2023		
Machine Age	hrs	Client Info		0		
Sample Status				ABNORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.860		
Fuel Color	text	Visual Screen*	Yllow	Red		
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.8		
Pensky-Martens Flash Point	°C	ASTM D7215*	52	71.4		
SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	14		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	189		
5% Distillation Point	°C	ASTM D2887*		215		
10% Distill Point	°C	ASTM D2887*	201	225		
15% Distillation Point	°C	ASTM D2887*		231		
20% Distill Point	°C	ASTM D2887*	216	238		
30% Distill Point	°C	ASTM D2887*	230	249		
40% Distill Point	°C	ASTM D2887*	243	258		
50% Distill Point	°C	ASTM D2887*	255	267		
60% Distill Point	°C	ASTM D2887*	267	278		
70% Distill Point	°C	ASTM D2887*	280	288		
80% Distill Point	°C	ASTM D2887*	295	300		
85% Distillation Point	°C	ASTM D2887*		309		
90% Distill Point	°C	ASTM D2887*	310	318		
95% Distillation Point	°C	ASTM D2887*		333		
Final Boiling Point	°C	ASTM D2887*	341	367		
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	33		
Cetane Index		ASTM D4737*	<40.0	43		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0		
Sodium	ppm	ASTM D5185(m)	<0.1	0		
Potassium	ppm	ASTM D5185(m)	<0.1	<1		
Water	%	ASTM D6304*	<0.05	0.003		
ppm Water	ppm	ASTM D6304*	<500	34.6		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	🔺 15117		
Particles >6µm		ASTM D7647	>640	<u> </u>		
Particles >14µm		ASTM D7647	>80	1 93		
Particles >21µm		ASTM D7647	>20	25		
Particles >38µm		ASTM D7647	>4	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	A 21/19/15		
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