

FUEL REPORT

Sample Rating Trend

ISO

Kohler 80kw

Component Diesel Fuel Fluid NOT GIVEN (650 GAL)

DIAGNOSIS

A Recommendation

Recommend pre-filtering before use. All laboratory tests indicate that this sample meets specifications for No.2 low-sulfur diesel fuel.

Corrosion

All metal levels are normal indicating no corrosion in the system.

Contaminants

There is a high amount of particulates present in the fuel. The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample.

Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation.

			Feb2022	Jun2023		
SAMPLE INFORM	IATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		WC0829178	WC0658741	
Sample Date		Client Info		13 Jun 2023	01 Feb 2022	
Machine Age	hrs	Client Info		737	0	
Sample Status				MARGINAL	ATTENTION	
PHYSICAL PROP	ERTIES	method	limit/base	current	history 1	history 2
Specific Gravity		*ASTM D1298		0.843	0.843	
Fuel Color	text	*Visual Screen		Red	Red	
ASTM Color	scalar	*ASTM D1500		1.0	L4.0	
Visc @ 40°C	cSt	ASTM D445		2.53	2.56	
Pensky-Martens Flash Point	°C	*PMCC Calculated		65	65	
Cloud Point	°C	ASTM D5771		-13	-13	
Pour Point	°C	ASTM D5771 ASTM D5950		-35	-37	
SULFUR CONTEN	T	method	limit/base	current	history 1	history 2
Sulfur	ppm	ASTM D5185m		467	370	
Sulfur (UVF)	ppm	ASTM D5453		367	425	
DISTILLATION		method	limit/base	current	history 1	history 2
nitial Boiling Point	°C	ASTM D86		170	169	
5% Distillation Point	°C	ASTM D86		191	193	
10% Distill Point	°C	ASTM D86		202	203	
15% Distillation Point	°C	ASTM D86		211	211	
20% Distill Point	°C	ASTM D86		219	219	
30% Distill Point	°C	ASTM D86		233	234	
40% Distill Point	°C	ASTM D86		247	248	
50% Distill Point	°C	ASTM D86		260	261	
60% Distill Point	°C	ASTM D86		200	274	
	°C			288	274	
70% Distill Point	-	ASTM D86				
80% Distill Point	°C	ASTM D86		303	303	
85% Distillation Point	°C	ASTM D86		312	312	
90% Distill Point	°C	ASTM D86		323	323	
95% Distillation Point	°C	ASTM D86		339	339	
Final Boiling Point	°C	ASTM D86		348	350	
Distillation Residue	%	ASTM D86		1.4	1.4	
Distillation Loss	%	ASTM D86		0.8	0.5	
IGNITION QUALIT	ΓY	method	limit/base	current	history 1	history 2
API Gravity		ASTM D7777		36.4	36.4	
Cetane Index		ASTM D4737	<40.0	47.5	47.4	
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	<1.0	0	0	
Sodium	ppm	ASTM D5185m	<0.1	0	0	
Potassium	ppm	ASTM D5185m	<0.1	<1	0	
otassiani			< 0.05	0.003	0.003	
	%	ASTM D6304	<0.05	0.005	0.000	
Water	% ppm	ASTM D6304 ASTM D6304	<500	30.7	35.1	
Water opm Water % Gasoline						



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(40°C)

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350° <u>ନ</u>ି 300°C

250°0

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150°

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Abnorma

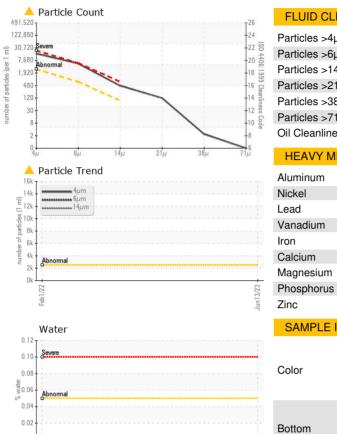
Feb1/22

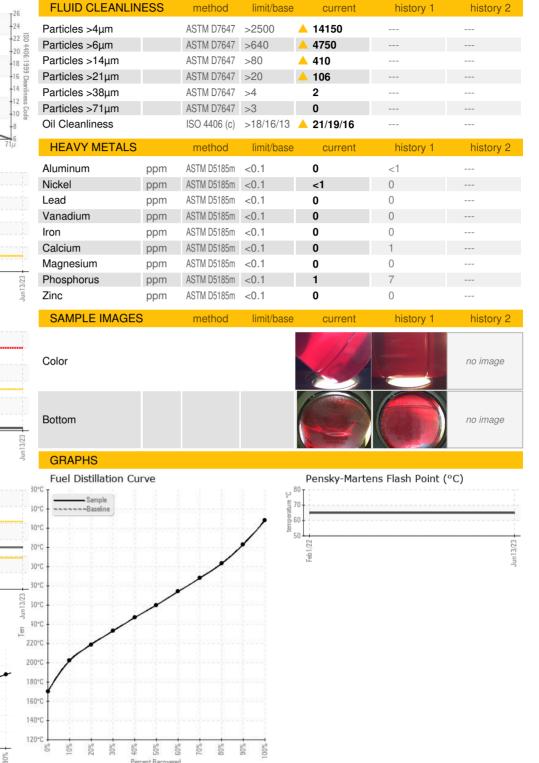
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Viscosity @ 40°C

Fuel Distillation Curve

FUEL REPORT







Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

50% 80% %0% 80%

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Submitted By: ROBERT MCARTHUR

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