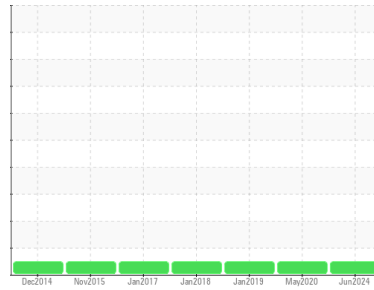


FUEL REPORT

Sample Rating Trend



Area
[6100298904]
Machine Id
6R735912
Component
Diesel Fuel
Fluid
No.1 DIESEL FUEL (LOW-SULPHUR) (--- GAL)

DIAGNOSIS

Recommendation

Laboratory test indicate that this fuel is suitable for use and meets all test requirements. Resample at the next service interval to monitor.

Contaminants

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. There is no indication of any contamination in the diesel fuel.

Fuel Condition

All laboratory tests indicate that this sample meets specifications for No.1 ultra-low-sulfur diesel fuel (US EPA/CGSB-3.517-3 type A).

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WA0021953	WA0015027	WA0010082
Sample Date	Client Info			18 Jun 2024	14 May 2020	08 Jan 2019
Machine Age	hrs	Client Info		0	285	252
Sample Status				NORMAL	NORMAL	NORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.825	0.838	0.838	0.835
Fuel Color	text	Visual Screen*	Clear	Yellow	Yellow	Yellow
Visc @ 40°C	cSt	ASTM D7279(m)	1.8	2.4	2.3	2.3
Pensky-Martens Flash Point	°C	ASTM D7215*	38	61.9	66	62

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	250	15	72	111

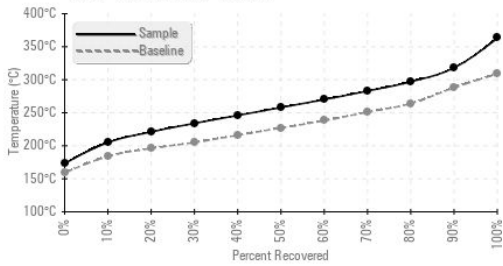
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	159	173	168	169
5% Distillation Point	°C	ASTM D2887*		195	192	191
10% Distill Point	°C	ASTM D2887*	184	205	201	200
15% Distillation Point	°C	ASTM D2887*		213	208	206
20% Distill Point	°C	ASTM D2887*	196	221	213	213
30% Distill Point	°C	ASTM D2887*	205	234	226	224
40% Distill Point	°C	ASTM D2887*	216	246	237	236
50% Distill Point	°C	ASTM D2887*	227	258	248	247
60% Distill Point	°C	ASTM D2887*	238	270	260	258
70% Distill Point	°C	ASTM D2887*	251	283	272	270
80% Distill Point	°C	ASTM D2887*	264	297	286	284
85% Distillation Point	°C	ASTM D2887*		307	295	293
90% Distill Point	°C	ASTM D2887*	288	318	307	304
95% Distillation Point	°C	ASTM D2887*		336	324	322
Final Boiling Point	°C	ASTM D2887*	309	363	338	335
Distillation Residue	%	ASTM D86(e)*	3.0	---	1.4	1.4
Distillation Loss	%	ASTM D86(e)*	3.0	---	0.4	0.5

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	40.1	37	37.4	38.0
Cetane Index		ASTM D4737*	<40.0	48	46.7	47.2

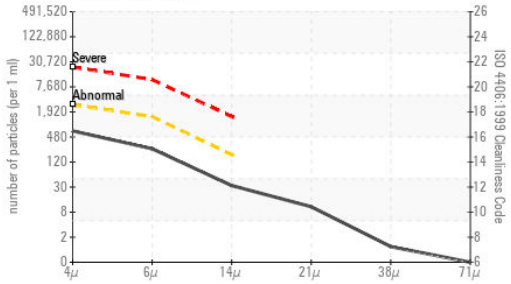
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0	0	0
Sodium	ppm	ASTM D5185(m)	<0.1	0	<1	<1
Potassium	ppm	ASTM D5185(m)	<0.1	0	0	0
Water	%	ASTM D6304*	<0.05	0.003	0.001	0.001
ppm Water	ppm	ASTM D6304*	<500	29	13.5	10.3

FUEL REPORT

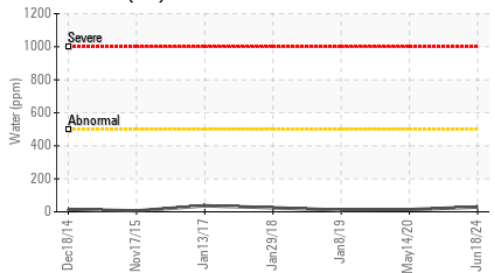
Fuel Distillation Curve



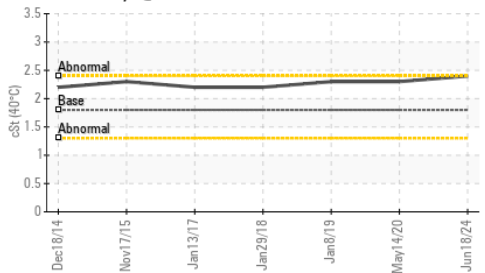
Particle Count



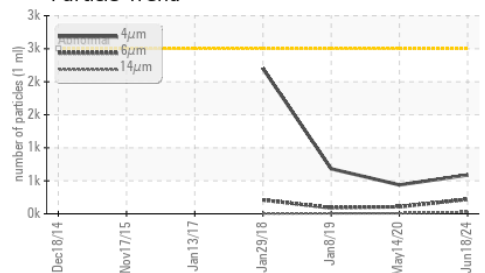
Water (KF)



Viscosity @ 40°C



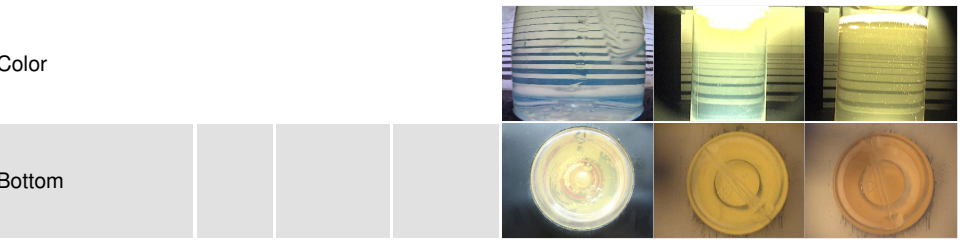
Particle Trend



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	588	438	682
Particles >6µm	ASTM D7647	>1300	220	107	90
Particles >14µm	ASTM D7647	>160	29	8	7
Particles >21µm	ASTM D7647	>40	9	3	2
Particles >38µm	ASTM D7647	>10	1	0	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>18/17/14	16/15/12	16/14/10	17/14/10

HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm ASTM D5185(m)	<0.1	0	0	0
Nickel	ppm ASTM D5185(m)	<0.1	0	0	0
Lead	ppm ASTM D5185(m)	<0.1	0	0	0
Vanadium	ppm ASTM D5185(m)	<0.1	0	0	0
Iron	ppm ASTM D5185(m)	<0.1	0	<1	0
Calcium	ppm ASTM D5185(m)	<0.1	0	0	<1
Magnesium	ppm ASTM D5185(m)	<0.1	0	0	0
Phosphorus	ppm ASTM D5185(m)	<0.1	0	<1	0
Zinc	ppm ASTM D5185(m)	<0.1	0	<1	0

SAMPLE IMAGES



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0021953 **Received** : 26 Jun 2024
Lab Number : **02644259** **Tested** : 02 Jul 2024
Unique Number : 5801798 **Diagnosed** : 02 Jul 2024 - Kevin Marson
Test Package : FUEL (Additional Tests: CC Flash, PrtCount)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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