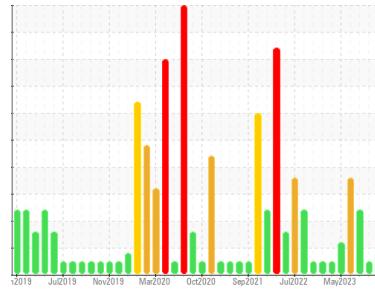




FUEL REPORT

Sample Rating Trend



ISO



Machine Id
TDT837241 DIESEL DAY TANK SPG4160A

Component
Diesel Fuel

Fluid
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. Resample at the next service interval to monitor.

Contaminants

There is a light amount of silt (particulates < 14 microns in size) present in the fuel. There is no bacteria or fungus (yeast and/or mold) present in the sample. 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).

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PP13941989	PP13920747	PP13899605
Sample Date	Client Info			07 Jan 2024	07 Nov 2023	06 Aug 2023
Machine Age	hrs	Client Info		0	0	0
Sample Status				ATTENTION	NORMAL	ABNORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.841	0.841	0.842
Fuel Color	text	Visual Screen*	Yellow	Yellow	Yellow	Yellow
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.9	2.7	2.7
Pensky-Martens Flash Point	°C	ASTM D7215*	52	63.3	64.4	64.9

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	8	8	9

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	174	175	176
5% Distillation Point	°C	ASTM D2887*		197	197	200
10% Distill Point	°C	ASTM D2887*	201	209	208	211
15% Distillation Point	°C	ASTM D2887*		217	216	219
20% Distill Point	°C	ASTM D2887*	216	226	225	227
30% Distill Point	°C	ASTM D2887*	230	241	240	242
40% Distill Point	°C	ASTM D2887*	243	254	253	254
50% Distill Point	°C	ASTM D2887*	255	267	266	266
60% Distill Point	°C	ASTM D2887*	267	280	280	279
70% Distill Point	°C	ASTM D2887*	280	294	294	292
80% Distill Point	°C	ASTM D2887*	295	310	310	307
85% Distillation Point	°C	ASTM D2887*		321	322	317
90% Distill Point	°C	ASTM D2887*	310	332	333	328
95% Distillation Point	°C	ASTM D2887*		350	353	345
Final Boiling Point	°C	ASTM D2887*	341	377	384	364

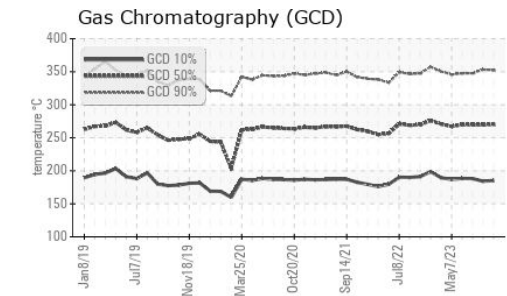
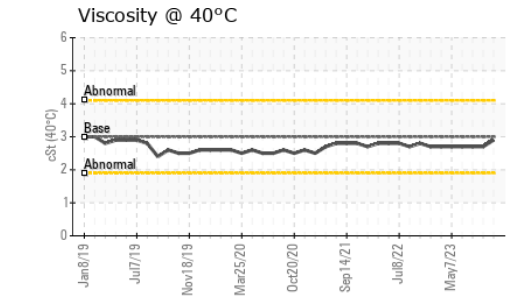
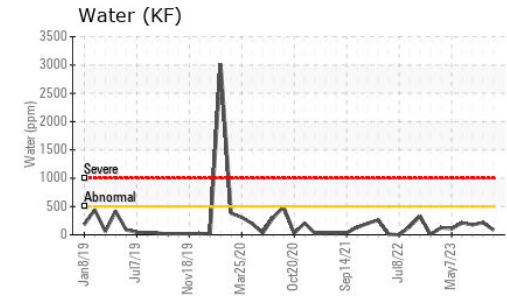
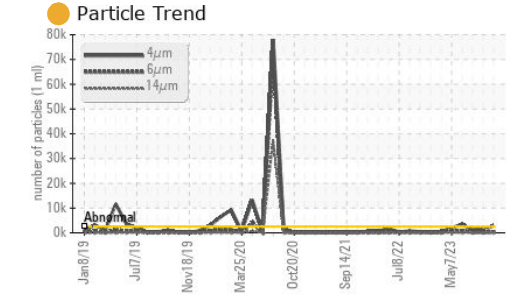
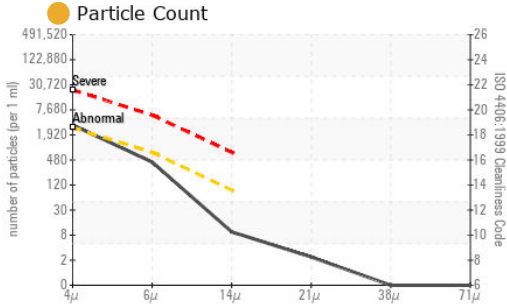
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	36	36	36
Cetane Index		ASTM D4737*	<40.0	49	49	49

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0	0	0
Sodium	ppm	ASTM D5185(m)	<0.1	<1	0	0
Potassium	ppm	ASTM D5185(m)	<0.1	0	<1	<1
Water	%	ASTM D6304*	<0.05	0.008	0.021	0.017
ppm Water	ppm	ASTM D6304*	<500	85	215	176.5

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	2898	964	997
Particles >6µm		ASTM D7647	>640	376	220	197
Particles >14µm		ASTM D7647	>80	8	18	14
Particles >21µm		ASTM D7647	>20	2	7	4
Particles >38µm		ASTM D7647	>4	0	2	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	19/16/10	17/15/11	17/15/11



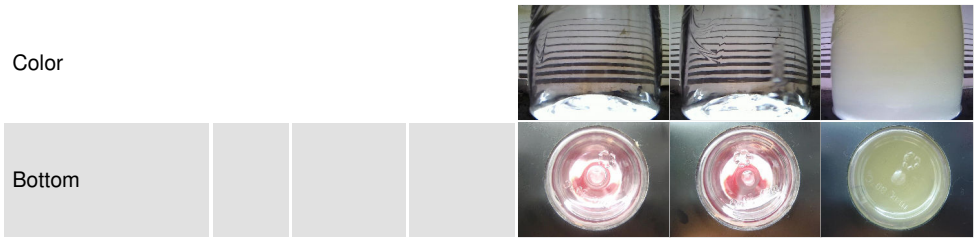
FUEL REPORT



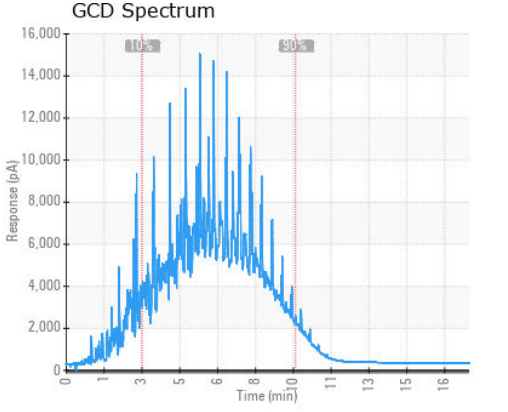
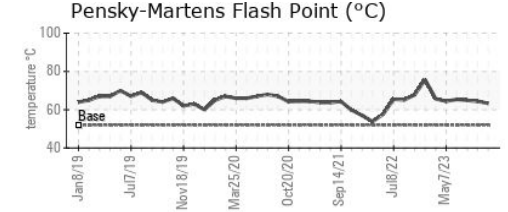
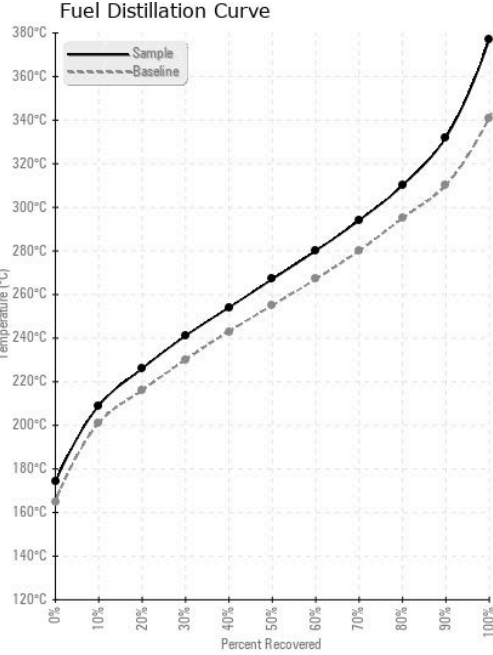
MICROBIAL	method	limit/base	current	history1	history2
Bacteria	CFU/ml ASTM D6469*	>=100000	0	0	0
Yeast	CFU/ml ASTM D6469*	>=100000	0	0	0
Mold	Colonies ASTM D6469*	MODER	NONE	NONE	NONE

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	<1
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	<1	<1	0
Zinc	ppm ASTM D5185(m)	<0.1	0	0	0

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PP13941989 **Received** : 01 Apr 2024
Lab Number : 02625838 **Tested** : 09 Apr 2024
Unique Number : 5758970 **Diagnosed** : 09 Apr 2024 - Kevin Marson
Test Package : FUEL (Additional Tests: Bacteria, CC Flash, PrtCount)

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 F:

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.