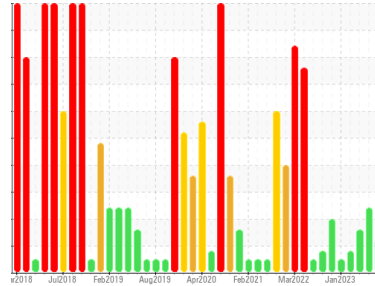




FUEL REPORT

Sample Rating Trend



ISO



Machine Id
TDT411202B DIESEL DAY TANK FIRE WATER PUMP B

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.

Corrosion

{not applicable}

Contaminants

There is a light 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).

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PP13899605	PP13878485	PP13857616
Sample Date	Client Info	06 Aug 2023	10 Jul 2023	07 May 2023
Machine Age	days	0	0	0
Sample Status		ATTENTION	ABNORMAL	ABNORMAL

PHYSICAL PROPERTIES

method	limit/base	current	history1	history2		
Specific Gravity	ASTM D1298*	0.839	0.839	0.840	0.842	
Fuel Color	text	Visual Screen*	Yellow	Yellow	Yellow	
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.7	2.7	2.7
Pensky-Martens Flash Point	°C	ASTM D7215*	52	64	64.6	64.3

SULFUR CONTENT

method	limit/base	current	history1	history2		
Sulfur	ppm	ASTM D5185(m)	10	7	7	8

DISTILLATION

method	limit/base	current	history1	history2		
Initial Boiling Point	°C	ASTM D2887*	165	175	176	176
5% Distillation Point	°C	ASTM D2887*		197	198	199
10% Distill Point	°C	ASTM D2887*	201	208	209	210
15% Distillation Point	°C	ASTM D2887*		217	218	218
20% Distill Point	°C	ASTM D2887*	216	225	226	226
30% Distill Point	°C	ASTM D2887*	230	240	241	241
40% Distill Point	°C	ASTM D2887*	243	253	253	253
50% Distill Point	°C	ASTM D2887*	255	265	266	266
60% Distill Point	°C	ASTM D2887*	267	279	279	279
70% Distill Point	°C	ASTM D2887*	280	292	292	292
80% Distill Point	°C	ASTM D2887*	295	307	307	306
85% Distillation Point	°C	ASTM D2887*		317	317	316
90% Distill Point	°C	ASTM D2887*	310	328	328	326
95% Distillation Point	°C	ASTM D2887*		345	345	344
Final Boiling Point	°C	ASTM D2887*	341	363	367	360

IGNITION QUALITY

method	limit/base	current	history1	history2	
API Gravity	ASTM D1298*	37.7	37	36	36
Cetane Index	ASTM D4737*	<40.0	50	50	49

CONTAMINANTS

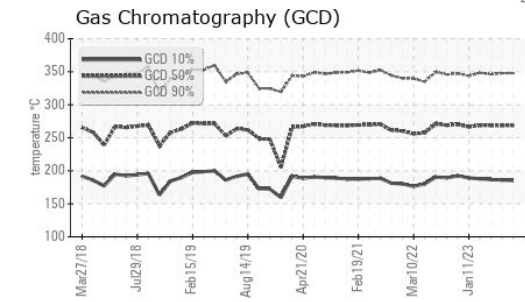
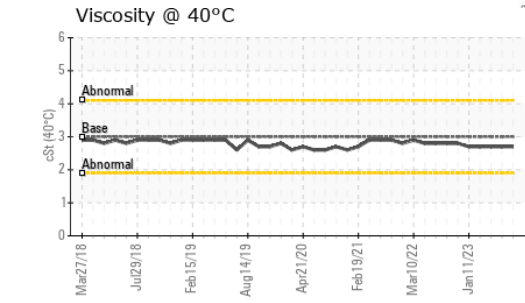
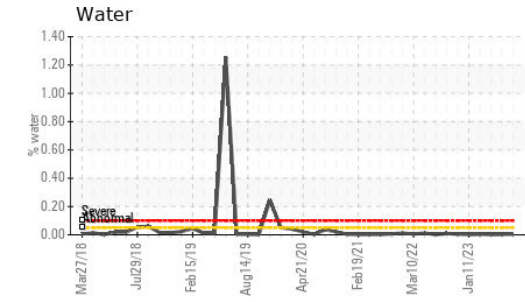
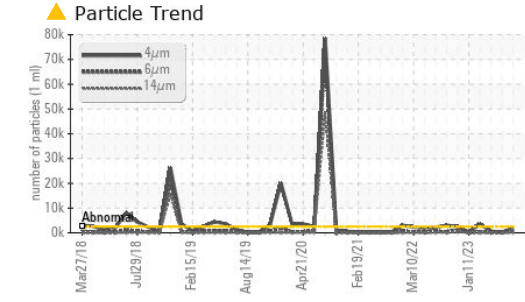
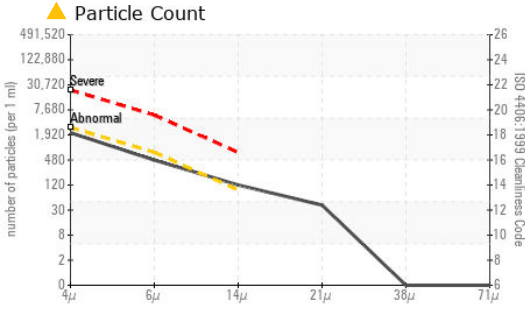
method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	<1.0	0	0	0
Sodium	ppm	ASTM D5185(m)	<0.1	0	0	<1
Potassium	ppm	ASTM D5185(m)	<0.1	<1	<1	0
Water	%	ASTM D6304*	<0.05	0.004	0.003	0.001
ppm Water	ppm	ASTM D6304*	<500	48.0	31.7	12.0

FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>2500	1897	217	653
Particles >6µm	ASTM D7647	>640	418	39	65
Particles >14µm	ASTM D7647	>80	▲ 106	4	5
Particles >21µm	ASTM D7647	>20	▲ 35	1	2
Particles >38µm	ASTM D7647	>4	0	0	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 18/16/14	15/12/9	17/13/10



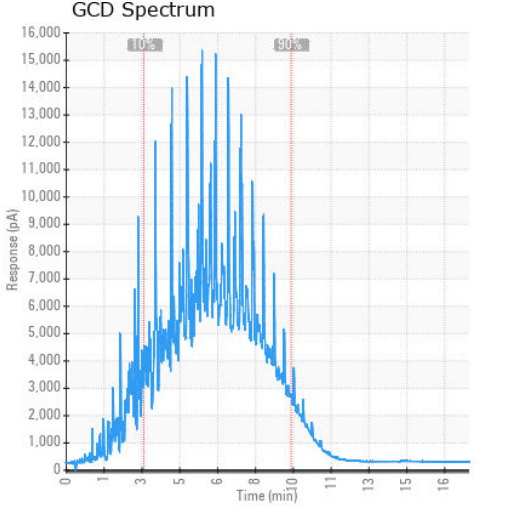
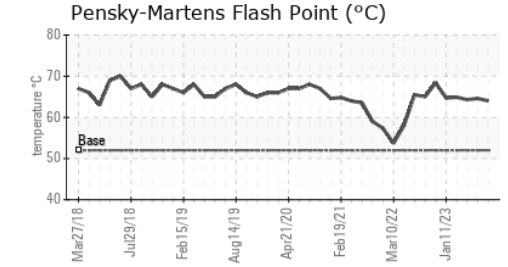
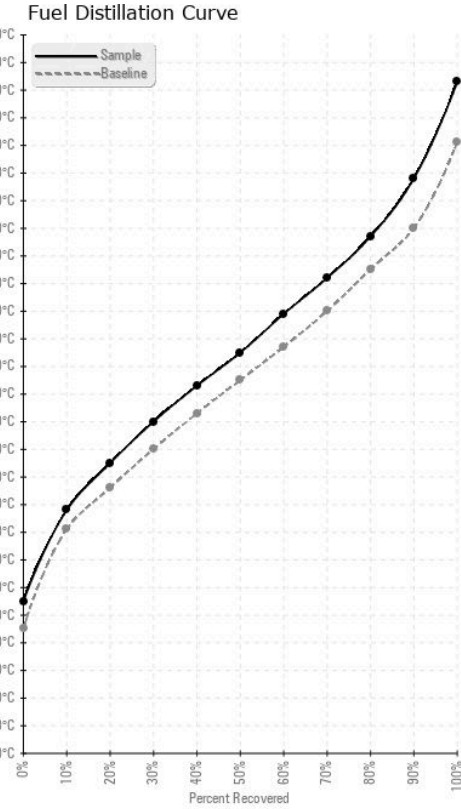
FUEL REPORT



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

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PP13899605
Lab Number : 02577291
Unique Number : 5630351
Test Package : FUEL (Additional Tests: CC Flash, GC-PercFuel, 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.