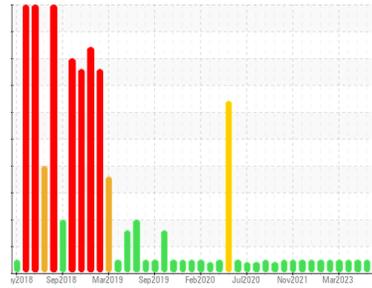




# FUEL REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**TDT411202D DIESEL DAY TANK FIRE WATER PUMP D**

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. Resample at the next service interval to monitor.

### Corrosion

{not applicable}

### 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.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			<b>PP13920747</b>	PP13899605	PP13878485
Sample Date	Client Info			<b>07 Nov 2023</b>	06 Aug 2023	10 Jul 2023
Machine Age	hrs	Client Info		<b>0</b>	0	0
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	<b>0.841</b>	0.841	0.842
Fuel Color	text	Visual Screen*	Yellow	<b>Yellow</b>	Yellow	Yellow
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	<b>2.7</b>	2.8	2.7
Pensky-Martens Flash Point	°C	ASTM D7215*	52	<b>64.4</b>	64.8	65.1

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

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	<b>175</b>	176	176
5% Distillation Point	°C	ASTM D2887*		<b>197</b>	199	200
10% Distill Point	°C	ASTM D2887*	201	<b>208</b>	211	211
15% Distillation Point	°C	ASTM D2887*		<b>217</b>	219	219
20% Distill Point	°C	ASTM D2887*	216	<b>226</b>	227	227
30% Distill Point	°C	ASTM D2887*	230	<b>241</b>	242	241
40% Distill Point	°C	ASTM D2887*	243	<b>254</b>	254	254
50% Distill Point	°C	ASTM D2887*	255	<b>267</b>	267	266
60% Distill Point	°C	ASTM D2887*	267	<b>281</b>	280	279
70% Distill Point	°C	ASTM D2887*	280	<b>294</b>	293	292
80% Distill Point	°C	ASTM D2887*	295	<b>310</b>	308	307
85% Distillation Point	°C	ASTM D2887*		<b>321</b>	318	317
90% Distill Point	°C	ASTM D2887*	310	<b>333</b>	329	327
95% Distillation Point	°C	ASTM D2887*		<b>352</b>	346	345
Final Boiling Point	°C	ASTM D2887*	341	<b>378</b>	368	364

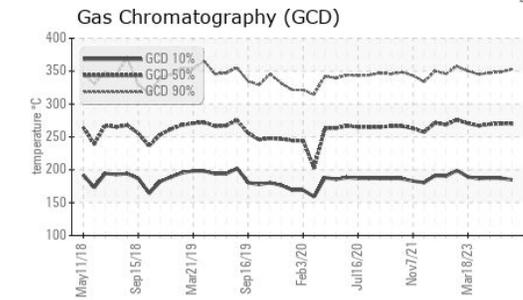
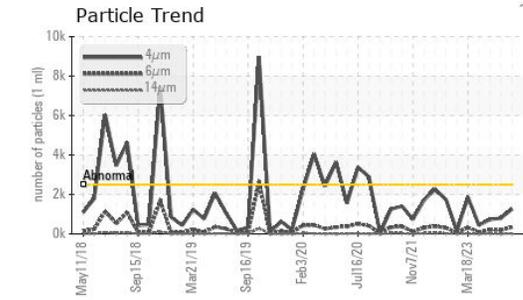
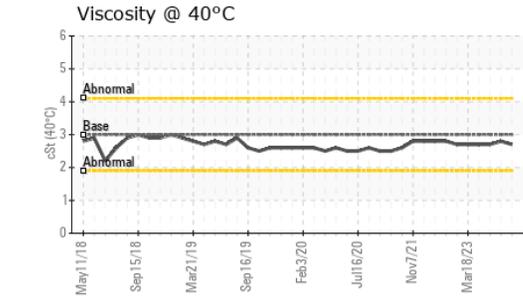
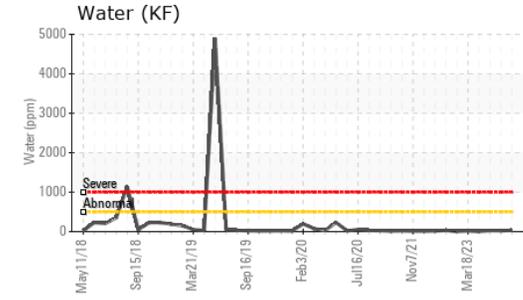
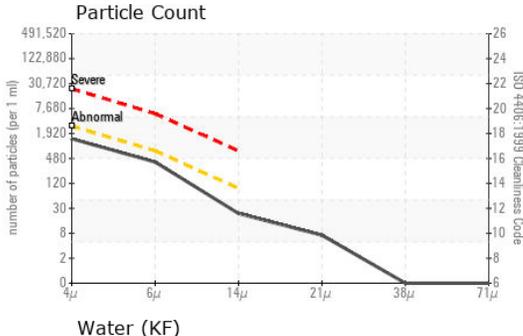
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	<b>36</b>	36	36
Cetane Index		ASTM D4737*	<40.0	<b>49</b>	50	49

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	<b>0</b>	0	0
Sodium	ppm	ASTM D5185(m)	<0.1	<b>0</b>	0	0
Potassium	ppm	ASTM D5185(m)	<0.1	<b>&lt;1</b>	<1	<1
Water	%	ASTM D6304*	<0.05	<b>0.003</b>	0.002	0.003
ppm Water	ppm	ASTM D6304*	<500	<b>33</b>	23.8	27.7

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>1256</b>	798	730
Particles >6µm		ASTM D7647	>640	<b>346</b>	187	203
Particles >14µm		ASTM D7647	>80	<b>20</b>	10	21
Particles >21µm		ASTM D7647	>20	<b>6</b>	3	6
Particles >38µm		ASTM D7647	>4	<b>0</b>	0	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>17/16/11</b>	17/15/10	17/15/12



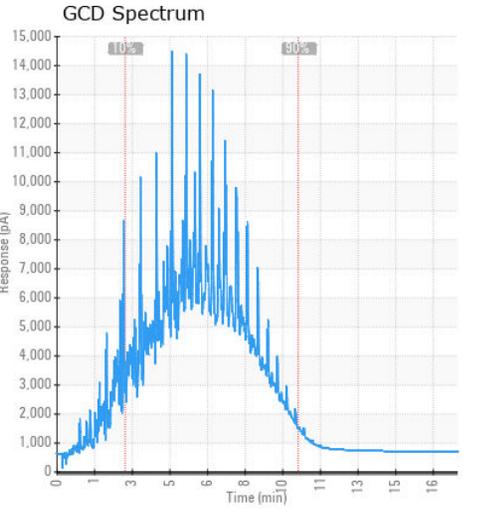
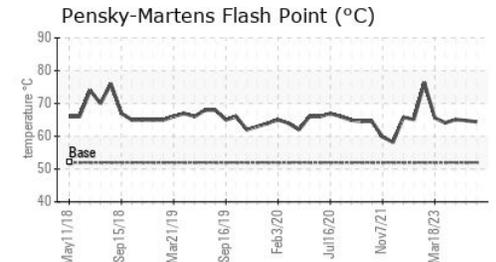
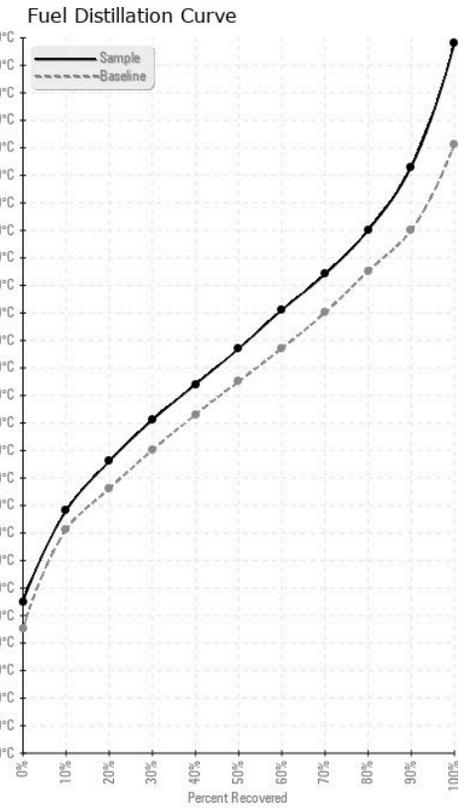
# FUEL REPORT



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

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PP13920747  
**Lab Number** : 02602454  
**Unique Number** : 5695539  
**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.