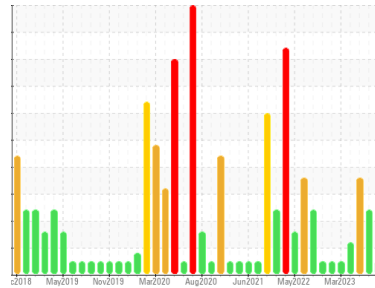




# FUEL REPORT

Sample Rating Trend



**NORMAL**



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. Resample at the next service interval to monitor.

### Corrosion

{not applicable}

### Contaminants

There is no bacteria or fungus (yeast and/or mold) present in the sample. 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>	ABNORMAL	ABNORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	<b>0.841</b>	0.842	0.843
Fuel Color	text	Visual Screen*	Yellow	<b>Yellow</b>	Yellow	Yellow
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	<b>2.7</b>	2.7	2.7
Pensky-Martens Flash Point	°C	ASTM D7215*	52	<b>64.4</b>	64.9	65.4

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

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	<b>175</b>	176	177
5% Distillation Point	°C	ASTM D2887*		<b>197</b>	200	200
10% Distill Point	°C	ASTM D2887*	201	<b>208</b>	211	211
15% Distillation Point	°C	ASTM D2887*		<b>216</b>	219	219
20% Distill Point	°C	ASTM D2887*	216	<b>225</b>	227	227
30% Distill Point	°C	ASTM D2887*	230	<b>240</b>	242	242
40% Distill Point	°C	ASTM D2887*	243	<b>253</b>	254	254
50% Distill Point	°C	ASTM D2887*	255	<b>266</b>	266	266
60% Distill Point	°C	ASTM D2887*	267	<b>280</b>	279	279
70% Distill Point	°C	ASTM D2887*	280	<b>294</b>	292	292
80% Distill Point	°C	ASTM D2887*	295	<b>310</b>	307	307
85% Distillation Point	°C	ASTM D2887*		<b>322</b>	317	317
90% Distill Point	°C	ASTM D2887*	310	<b>333</b>	328	328
95% Distillation Point	°C	ASTM D2887*		<b>353</b>	345	345
Final Boiling Point	°C	ASTM D2887*	341	<b>384</b>	364	366

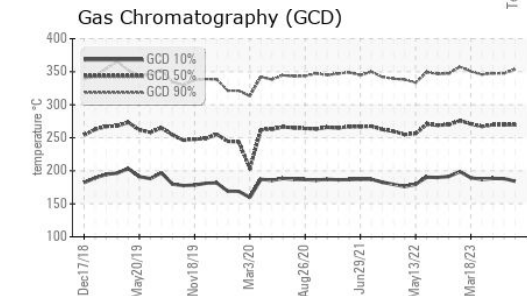
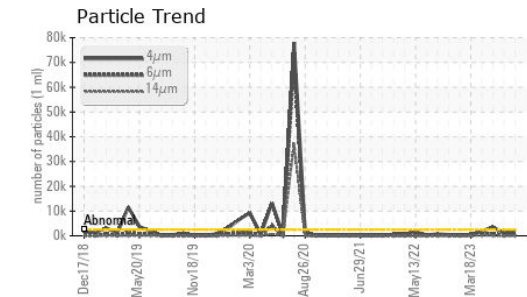
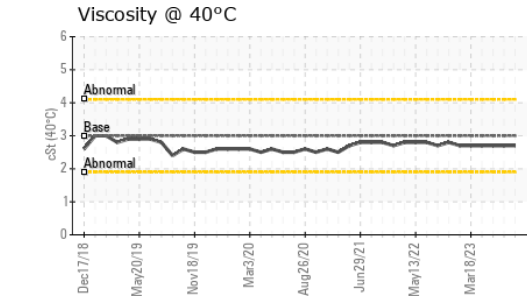
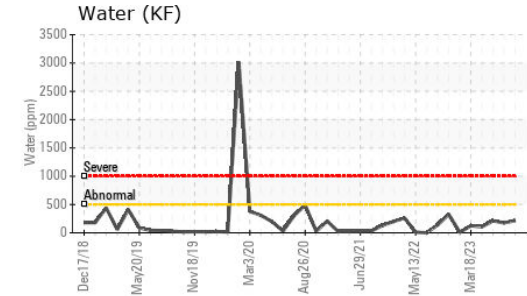
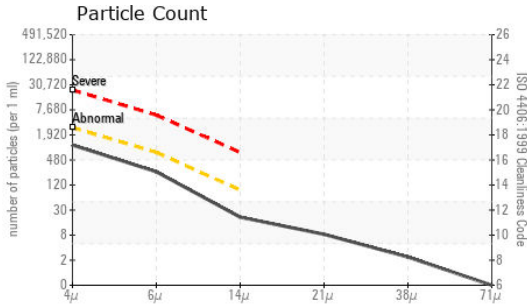
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	<b>36</b>	36	36
Cetane Index		ASTM D4737*	<40.0	<b>49</b>	49	49

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>0.021</b>	0.017	0.021
ppm Water	ppm	ASTM D6304*	<500	<b>215</b>	176.5	211.0

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>964</b>	997	▲ 3552
Particles >6µm		ASTM D7647	>640	<b>220</b>	197	▲ 815
Particles >14µm		ASTM D7647	>80	<b>18</b>	14	53
Particles >21µm		ASTM D7647	>20	<b>7</b>	4	16
Particles >38µm		ASTM D7647	>4	<b>2</b>	0	2
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>17/15/11</b>	17/15/11	▲ 19/17/13



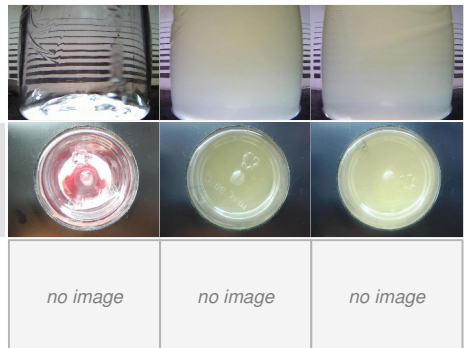
# FUEL REPORT



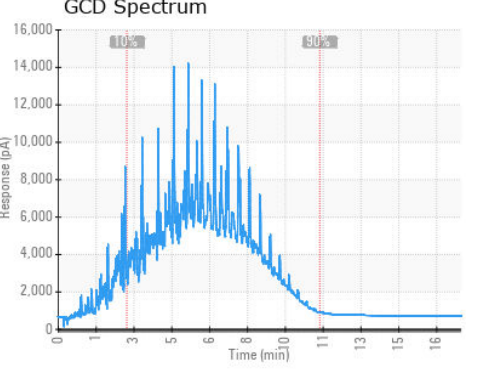
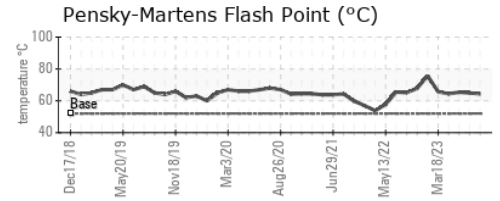
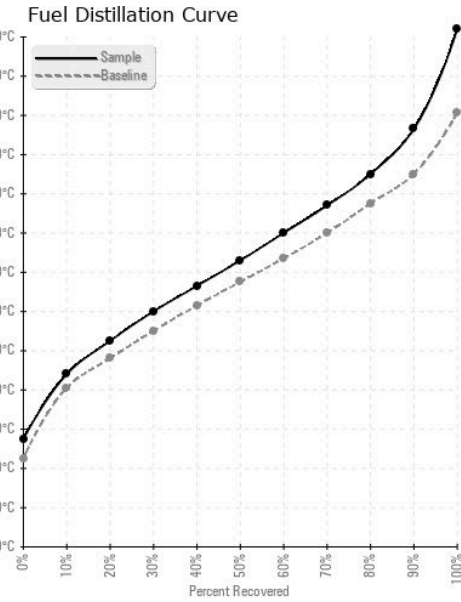
MICROBIAL	method	limit/base	current	history1	history2
Bacteria	CFU/ml ASTM D6469*	>=100000	0	0	0
Yeast	CFU/ml ASTM D6469*	>=100000	0	0	0
Mold	Colonies ASTM D6469*	MODER	NONE	NONE	NONE

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

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					
PrtFilter					



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PP13920747  
**Lab Number** : 02602449  
**Unique Number** : 5695534  
**Test Package** : FUEL ( Additional Tests: Bacteria, CC Flash, GC-PercFuel, PrtCount )

**ExxonMobil Canada East Ltd.**  
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 CA A1C 6K3  
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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.