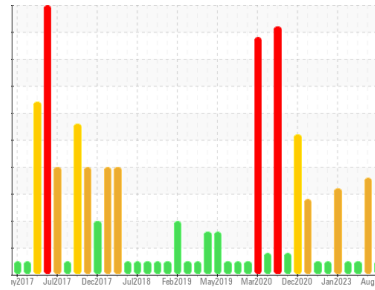




# FUEL REPORT

Sample Rating Trend



**NORMAL**



Area

**A22**

Machine Id

**ADT911210 TANK RAW DIESEL SW PEDESTAL CRANE**

Component

**Diesel Fuel**

Fluid

**No.2 DIESEL FUEL (ULTRALOW SULPHUR) (260000 LTR)**

## 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>PP13899605</b>	PP13878485	PP13857616
Sample Date	Client Info	<b>06 Aug 2023</b>	10 Jul 2023	07 May 2023
Machine Age	hrs	<b>0</b>	0	0
Sample Status		<b>NORMAL</b>	ABNORMAL	NORMAL

## PHYSICAL PROPERTIES

method	limit/base	current	history1	history2		
Specific Gravity	ASTM D1298*	0.839	<b>0.838</b>	0.838	0.837	
Fuel Color	text	Visual Screen*	<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>62.4</b>	62.8	62.1

## SULFUR CONTENT

method	limit/base	current	history1	history2		
Sulfur	ppm	ASTM D5185(m)	10	<b>6</b>	7	6

## DISTILLATION

method	limit/base	current	history1	history2		
Initial Boiling Point	°C	ASTM D2887*	165	<b>173</b>	174	173
5% Distillation Point	°C	ASTM D2887*		<b>195</b>	195	194
10% Distill Point	°C	ASTM D2887*	201	<b>207</b>	207	205
15% Distillation Point	°C	ASTM D2887*		<b>215</b>	216	214
20% Distill Point	°C	ASTM D2887*	216	<b>224</b>	224	222
30% Distill Point	°C	ASTM D2887*	230	<b>240</b>	240	238
40% Distill Point	°C	ASTM D2887*	243	<b>253</b>	253	251
50% Distill Point	°C	ASTM D2887*	255	<b>266</b>	267	265
60% Distill Point	°C	ASTM D2887*	267	<b>280</b>	281	279
70% Distill Point	°C	ASTM D2887*	280	<b>294</b>	295	293
80% Distill Point	°C	ASTM D2887*	295	<b>310</b>	310	309
85% Distillation Point	°C	ASTM D2887*		<b>320</b>	321	320
90% Distill Point	°C	ASTM D2887*	310	<b>331</b>	332	331
95% Distillation Point	°C	ASTM D2887*		<b>349</b>	349	349
Final Boiling Point	°C	ASTM D2887*	341	<b>367</b>	368	373

## IGNITION QUALITY

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

## CONTAMINANTS

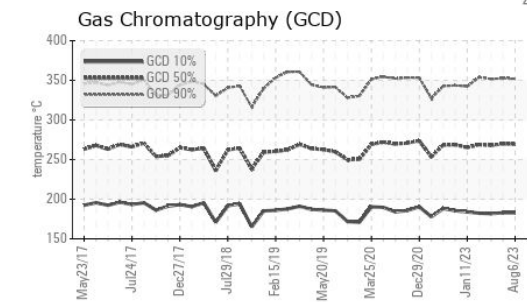
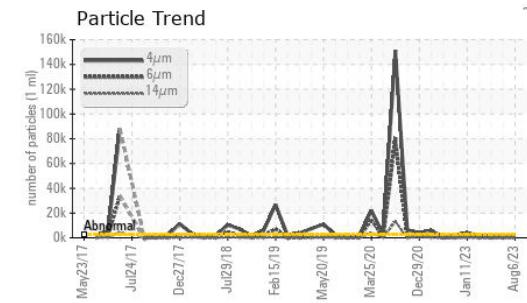
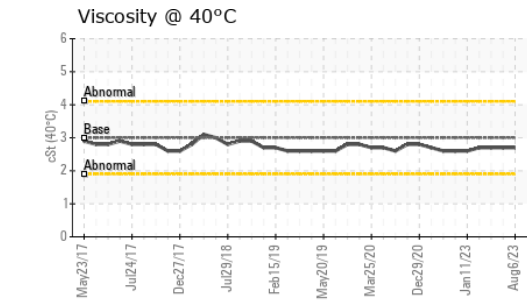
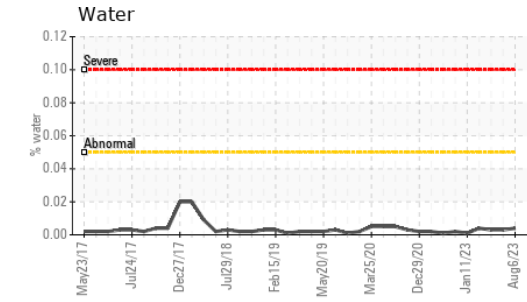
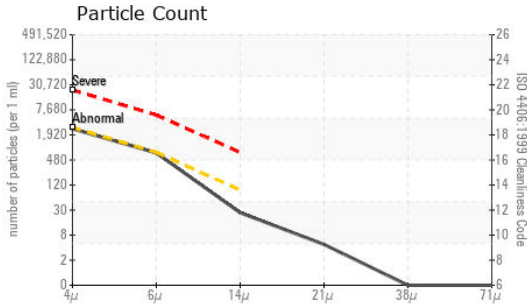
method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	<1.0	<b>0</b>	0	0
Sodium	ppm	ASTM D5185(m)	<0.1	<b>0</b>	0	<1
Potassium	ppm	ASTM D5185(m)	<0.1	<b>&lt;1</b>	<1	0
Water	%	ASTM D6304*	<0.05	<b>0.004</b>	0.003	0.003
ppm Water	ppm	ASTM D6304*	<500	<b>40.2</b>	29.1	31.9

## FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>2500	<b>2358</b>	1061	1084
Particles >6µm	ASTM D7647	>640	<b>622</b>	486	351
Particles >14µm	ASTM D7647	>80	<b>23</b>	▲ 114	19
Particles >21µm	ASTM D7647	>20	<b>4</b>	▲ 47	4
Particles >38µm	ASTM D7647	>4	<b>0</b>	2	0
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	<b>18/16/12</b>	▲ 17/16/14	17/16/11



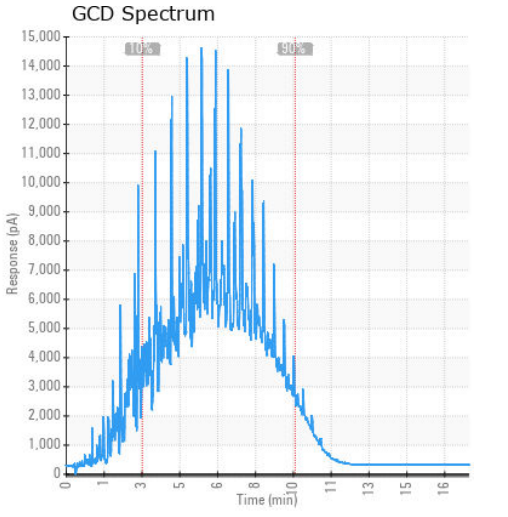
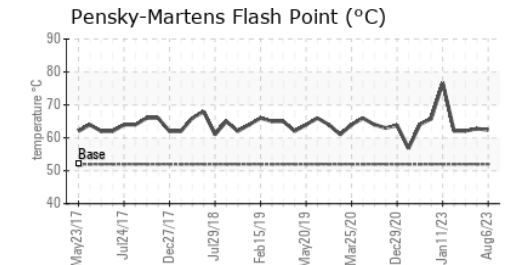
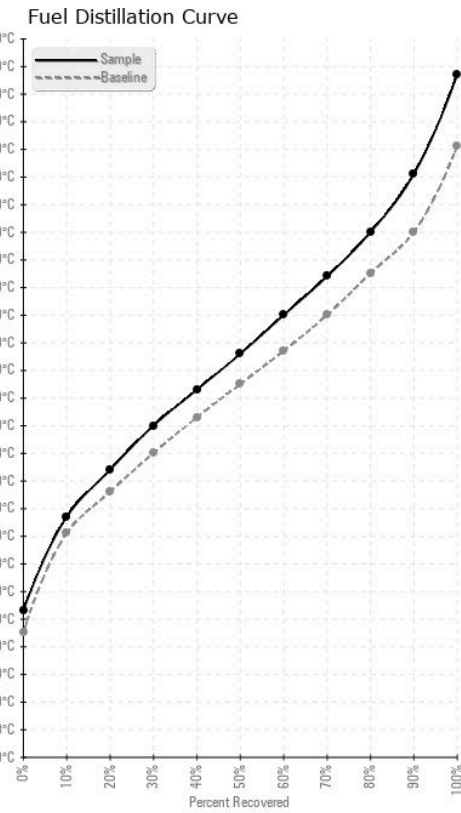
# FUEL REPORT



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	0
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 **Received** : 21 Aug 2023  
**Lab Number** : 02577294 **Diagnosed** : 23 Aug 2023  
**Unique Number** : 5630354 **Diagnostician** : Kevin Marson  
**Test Package** : FUEL ( Additional Tests: CC Flash, GC-PercFuel, PrtCount )

**ExxonMobil Canada East Ltd.**  
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 St. John's, NL  
 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.