



# FUEL REPORT

Sample Rating Trend

ISO

Area

**A21**

Machine Id

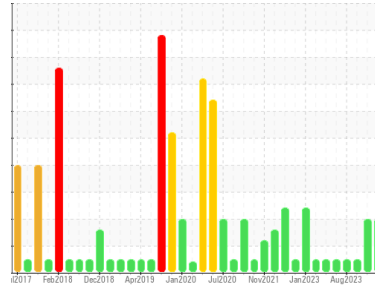
**ADT911220 TANK RAW DIESEL SE PEDESTAL CRANE**

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. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We advise that you filter this fluid before use. We recommend an early resample to monitor this condition.

### Contaminants

There is a moderate amount of particulates (2 to 100 microns in size) present in the fuel. The water content is negligible.

### Fuel Condition

The fuel is still serviceable provided that the contaminant(s) can be reduced to acceptable levels. 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>PP13964294</b>	PP13941989	PP13920747
Sample Date	Client Info	<b>15 Mar 2024</b>	07 Jan 2024	07 Nov 2023
Machine Age	hrs	<b>0</b>	0	0
Sample Status		<b>ABNORMAL</b>	ABNORMAL	NORMAL

## PHYSICAL PROPERTIES

method	limit/base	current	history1	history2		
Specific Gravity	ASTM D1298*	0.839	<b>0.849</b>	0.853	0.848	
Fuel Color	text	Visual Screen*	<b>Yellow</b>	Yellow	Yellow	
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	<b>3</b>	2.9	2.7
Pensky-Martens Flash Point	°C	ASTM D7215*	52	<b>63.8</b>	66.2	65

## SULFUR CONTENT

method	limit/base	current	history1	history2		
Sulfur	ppm	ASTM D5185(m)	10	<b>6</b>	7	8

## DISTILLATION

method	limit/base	current	history1	history2		
Initial Boiling Point	°C	ASTM D2887*	165	<b>175</b>	177	177
5% Distillation Point	°C	ASTM D2887*		<b>201</b>	205	200
10% Distill Point	°C	ASTM D2887*	201	<b>212</b>	215	211
15% Distillation Point	°C	ASTM D2887*		<b>221</b>	223	219
20% Distill Point	°C	ASTM D2887*	216	<b>229</b>	232	227
30% Distill Point	°C	ASTM D2887*	230	<b>244</b>	245	241
40% Distill Point	°C	ASTM D2887*	243	<b>257</b>	256	252
50% Distill Point	°C	ASTM D2887*	255	<b>269</b>	267	264
60% Distill Point	°C	ASTM D2887*	267	<b>283</b>	279	277
70% Distill Point	°C	ASTM D2887*	280	<b>296</b>	291	289
80% Distill Point	°C	ASTM D2887*	295	<b>311</b>	304	304
85% Distillation Point	°C	ASTM D2887*		<b>322</b>	315	315
90% Distill Point	°C	ASTM D2887*	310	<b>333</b>	325	326
95% Distillation Point	°C	ASTM D2887*		<b>352</b>	345	346
Final Boiling Point	°C	ASTM D2887*	341	<b>377</b>	371	373

## IGNITION QUALITY

method	limit/base	current	history1	history2	
API Gravity	ASTM D1298*	37.7	<b>35</b>	34	35
Cetane Index	ASTM D4737*	<40.0	<b>47</b>	45	46

## CONTAMINANTS

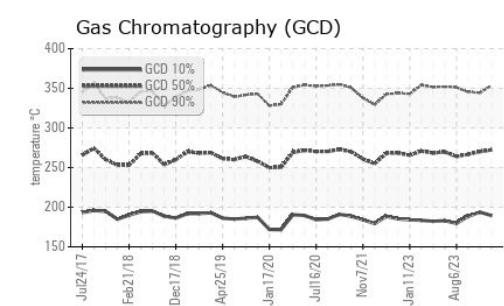
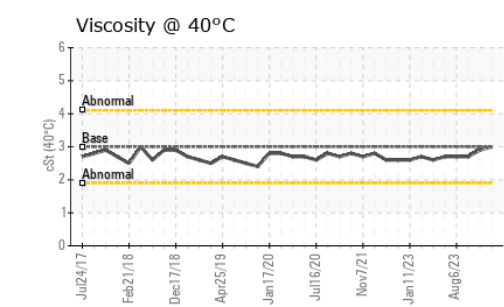
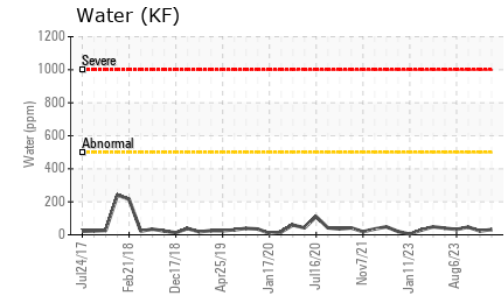
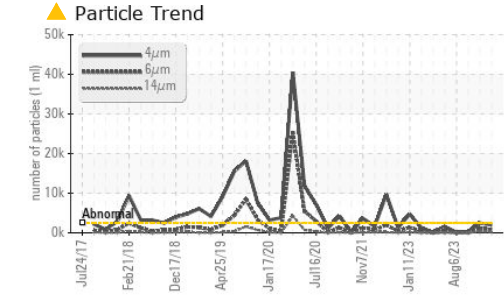
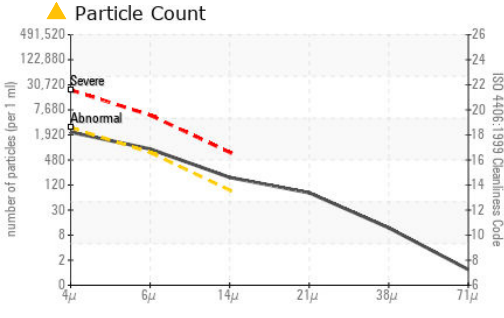
method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	<1.0	<b>0</b>	0	0
Sodium	ppm	ASTM D5185(m)	<0.1	<b>&lt;1</b>	<1	0
Potassium	ppm	ASTM D5185(m)	<0.1	<b>0</b>	0	<1
Water	%	ASTM D6304*	<0.05	<b>0.003</b>	0.002	0.004
ppm Water	ppm	ASTM D6304*	<500	<b>32</b>	23	47

## FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>2500	<b>1955</b>	2449	297
Particles >6µm	ASTM D7647	>640	<b>772</b>	1199	72
Particles >14µm	ASTM D7647	>80	<b>161</b>	300	2
Particles >21µm	ASTM D7647	>20	<b>69</b>	150	1
Particles >38µm	ASTM D7647	>4	<b>10</b>	32	0
Particles >71µm	ASTM D7647	>3	<b>1</b>	5	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	<b>18/17/15</b>	18/17/15	15/13/9



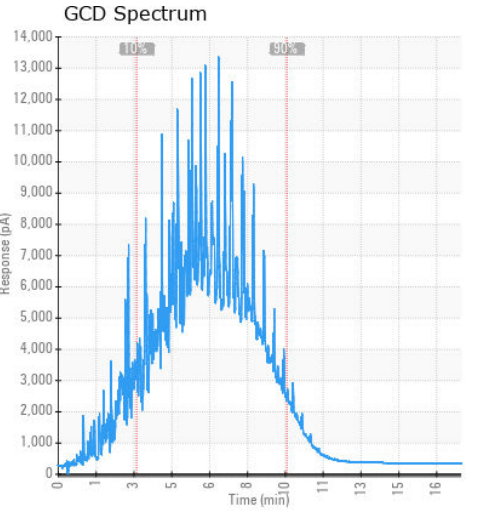
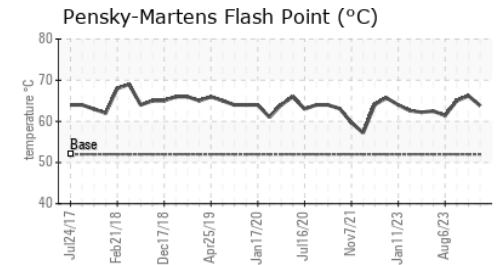
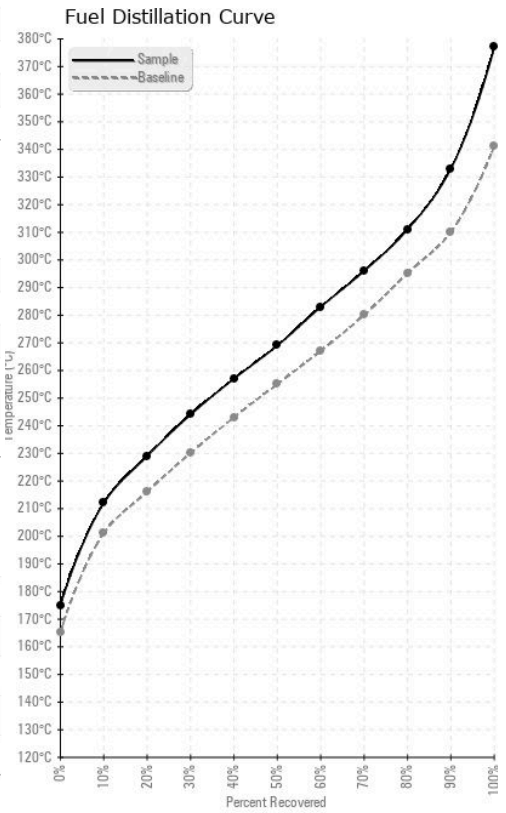
# FUEL REPORT



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

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PP13964294 **Received** : 01 Apr 2024  
**Lab Number** : 02625844 **Tested** : 03 Apr 2024  
**Unique Number** : 5758976 **Diagnosed** : 03 Apr 2024 - Kevin Marson  
**Test Package** : FUEL ( Additional Tests: CC Flash, PrtCount )

**ExxonMobil Canada East Ltd.**  
 Hebron-Materials and Repair Coordin, Suite 1000, 100 New Gow  
 St. John's, NL  
 CA A1C 6K3  
 Contact: Liam Maher  
 liam.m.maher@exxonmobil.com  
 T: (709)273-3729  
 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.