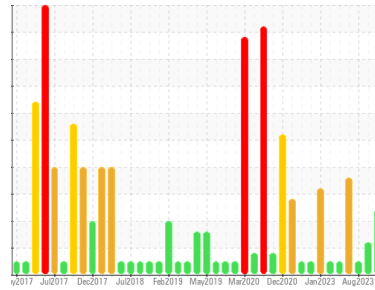




FUEL REPORT

Sample Rating Trend



ISO



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. 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	PP13941989	PP13920747	PP13899605
Sample Date	Client Info	07 Jan 2024	07 Nov 2023	06 Aug 2023
Machine Age	hrs	0	0	0
Sample Status		ABNORMAL	ABNORMAL	NORMAL

PHYSICAL PROPERTIES

method	limit/base	current	history1	history2		
Specific Gravity	ASTM D1298*	0.839	0.853	0.848	0.838	
Fuel Color	text	Visual Screen*	Yellow	Yellow	Yellow	
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.9	2.7	2.7
Pensky-Martens Flash Point	°C	ASTM D7215*	52	66.1	65.6	62.4

SULFUR CONTENT

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

DISTILLATION

method	limit/base	current	history1	history2		
Initial Boiling Point	°C	ASTM D2887*	165	177	177	173
5% Distillation Point	°C	ASTM D2887*		204	201	195
10% Distill Point	°C	ASTM D2887*	201	215	212	207
15% Distillation Point	°C	ASTM D2887*		223	220	215
20% Distill Point	°C	ASTM D2887*	216	231	228	224
30% Distill Point	°C	ASTM D2887*	230	244	241	240
40% Distill Point	°C	ASTM D2887*	243	255	252	253
50% Distill Point	°C	ASTM D2887*	255	267	263	266
60% Distill Point	°C	ASTM D2887*	267	279	276	280
70% Distill Point	°C	ASTM D2887*	280	291	289	294
80% Distill Point	°C	ASTM D2887*	295	304	303	310
85% Distillation Point	°C	ASTM D2887*		315	314	320
90% Distill Point	°C	ASTM D2887*	310	326	325	331
95% Distillation Point	°C	ASTM D2887*		345	344	349
Final Boiling Point	°C	ASTM D2887*	341	374	369	367

IGNITION QUALITY

method	limit/base	current	history1	history2	
API Gravity	ASTM D1298*	37.7	34	35	37
Cetane Index	ASTM D4737*	<40.0	45	46	50

CONTAMINANTS

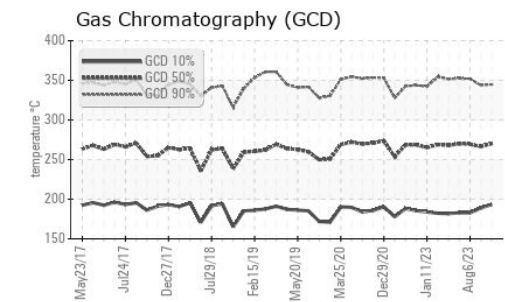
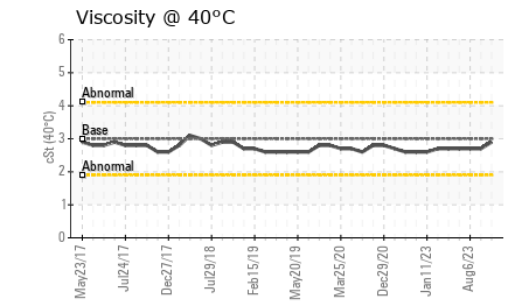
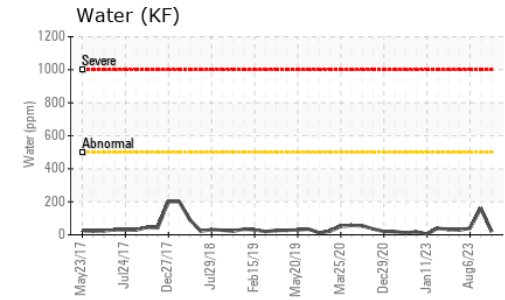
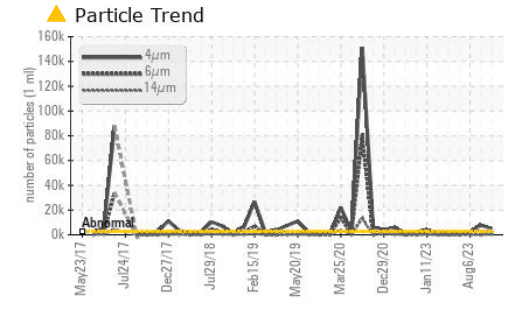
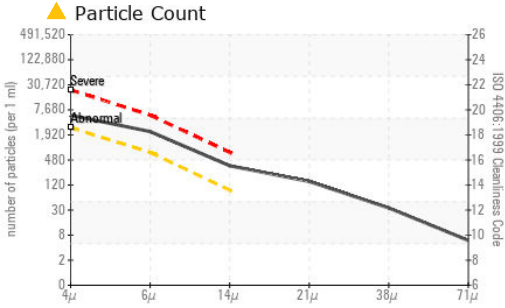
method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	<1.0	0	<1	0
Sodium	ppm	ASTM D5185(m)	<0.1	<1	0	0
Potassium	ppm	ASTM D5185(m)	<0.1	0	<1	<1
Water	%	ASTM D6304*	<0.05	0.002	0.016	0.004
ppm Water	ppm	ASTM D6304*	<500	20	161	40.2

FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>2500	4966	7732	2358
Particles >6µm	ASTM D7647	>640	2023	2458	622
Particles >14µm	ASTM D7647	>80	307	49	23
Particles >21µm	ASTM D7647	>20	129	4	4
Particles >38µm	ASTM D7647	>4	30	1	0
Particles >71µm	ASTM D7647	>3	5	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	19/18/15	20/18/13	18/16/12

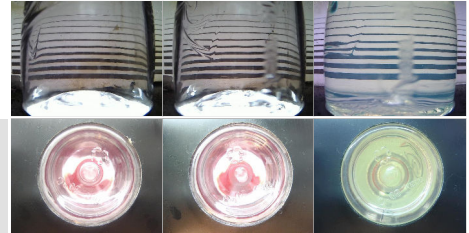


FUEL REPORT

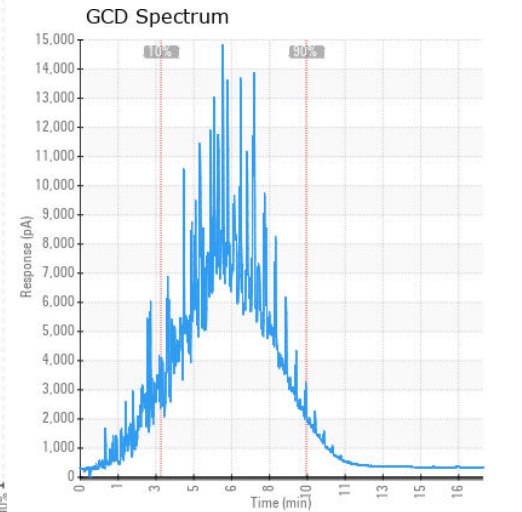
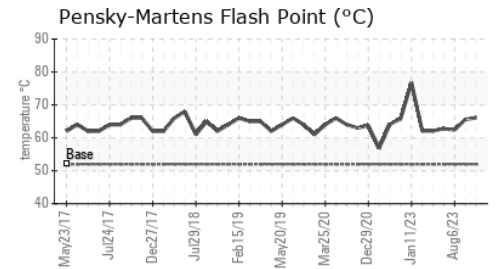
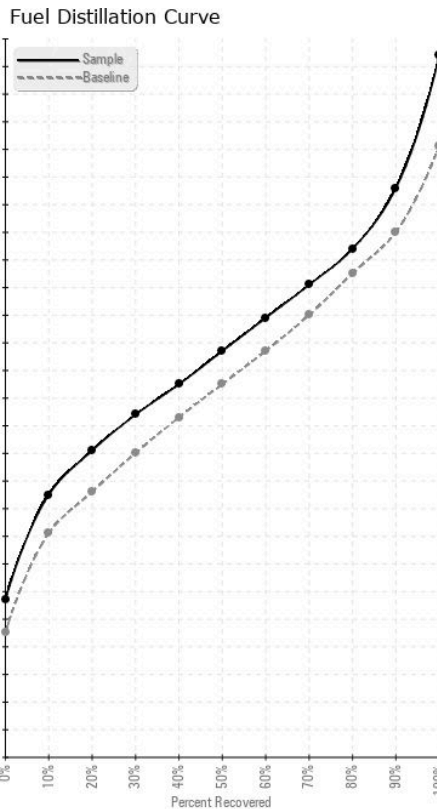


HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	0
Nickel	ppm	ASTM D5185(m)	<0.1	0	0
Lead	ppm	ASTM D5185(m)	<0.1	0	0
Vanadium	ppm	ASTM D5185(m)	<0.1	0	0
Iron	ppm	ASTM D5185(m)	<0.1	<1	<1
Calcium	ppm	ASTM D5185(m)	<0.1	0	0
Magnesium	ppm	ASTM D5185(m)	<0.1	0	0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

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



GRAPHS



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PP13941989 **Received** : 01 Apr 2024
Lab Number : 02625831 **Tested** : 03 Apr 2024
Unique Number : 5750950 **Diagnosed** : 03 Apr 2024 - Kevin Marson
Test Package : FUEL (Additional Tests: CC Flash, PrtCount)

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 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.