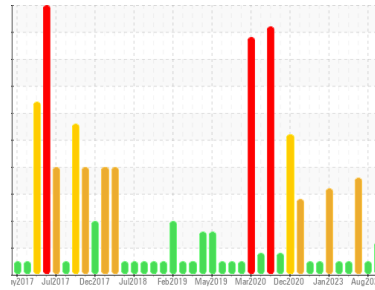




FUEL REPORT

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 filter this fluid before use. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Corrosion

(not applicable)

Contaminants

There is a moderate amount of silt (particulates < 14 microns in size) present in the fuel. There is no bacteria or fungus (yeast and/or mold) present in the sample. The water content is negligible.

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). The fuel is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PP13920747	PP13899605	PP13878485
Sample Date	Client Info	07 Nov 2023	06 Aug 2023	10 Jul 2023
Machine Age	hrs	0	0	0
Sample Status		ABNORMAL	NORMAL	ABNORMAL

PHYSICAL PROPERTIES

method	limit/base	current	history1	history2		
Specific Gravity	ASTM D1298*	0.839	0.848	0.838	0.838	
Fuel Color	text	Visual Screen*	Yellow	Yellow	Yellow	
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.7	2.7	2.7
Pensky-Martens Flash Point	°C	ASTM D7215*	52	65.6	62.4	62.8

SULFUR CONTENT

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

DISTILLATION

method	limit/base	current	history1	history2		
Initial Boiling Point	°C	ASTM D2887*	165	177	173	174
5% Distillation Point	°C	ASTM D2887*		201	195	195
10% Distill Point	°C	ASTM D2887*	201	212	207	207
15% Distillation Point	°C	ASTM D2887*		220	215	216
20% Distill Point	°C	ASTM D2887*	216	228	224	224
30% Distill Point	°C	ASTM D2887*	230	241	240	240
40% Distill Point	°C	ASTM D2887*	243	252	253	253
50% Distill Point	°C	ASTM D2887*	255	263	266	267
60% Distill Point	°C	ASTM D2887*	267	276	280	281
70% Distill Point	°C	ASTM D2887*	280	289	294	295
80% Distill Point	°C	ASTM D2887*	295	303	310	310
85% Distillation Point	°C	ASTM D2887*		314	320	321
90% Distill Point	°C	ASTM D2887*	310	325	331	332
95% Distillation Point	°C	ASTM D2887*		344	349	349
Final Boiling Point	°C	ASTM D2887*	341	369	367	368

IGNITION QUALITY

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

CONTAMINANTS

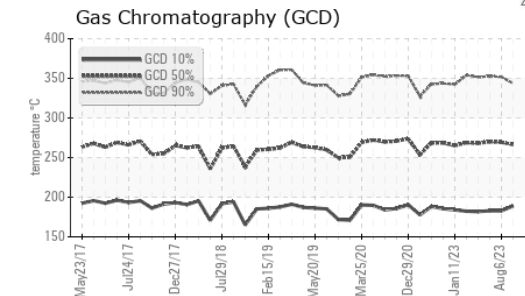
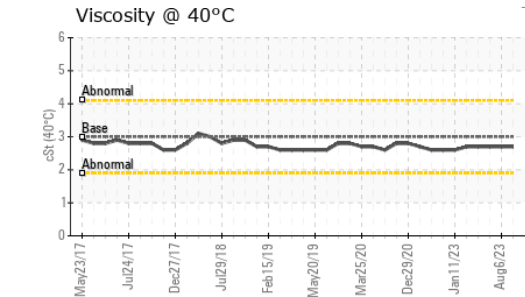
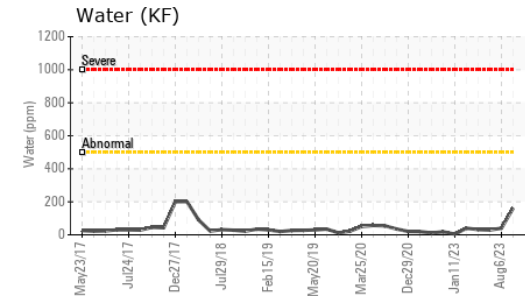
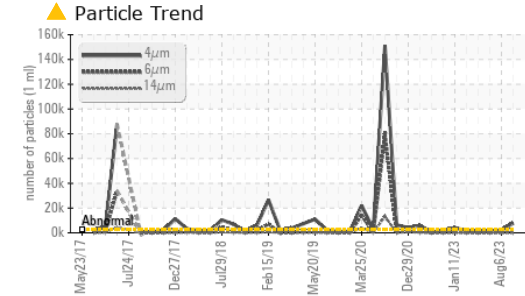
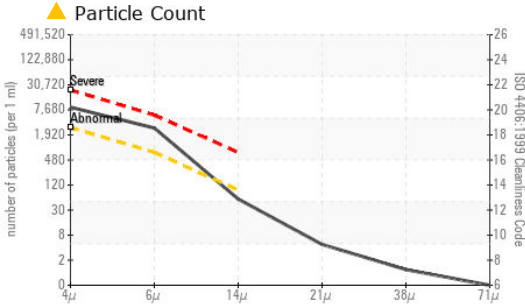
method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	<1.0	<1	0	0
Sodium	ppm	ASTM D5185(m)	<0.1	0	0	0
Potassium	ppm	ASTM D5185(m)	<0.1	<1	<1	<1
Water	%	ASTM D6304*	<0.05	0.016	0.004	0.003
ppm Water	ppm	ASTM D6304*	<500	161	40.2	29.1

FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>2500	▲ 7732	2358	1061
Particles >6µm	ASTM D7647	>640	▲ 2458	622	486
Particles >14µm	ASTM D7647	>80	49	23	▲ 114
Particles >21µm	ASTM D7647	>20	4	4	▲ 47
Particles >38µm	ASTM D7647	>4	1	0	2
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 20/18/13	18/16/12	▲ 17/16/14



FUEL REPORT

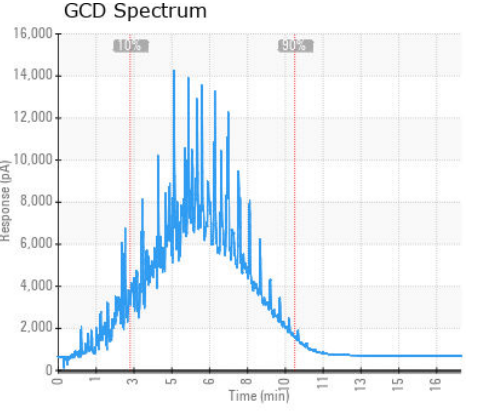
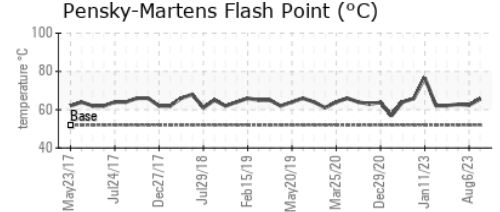
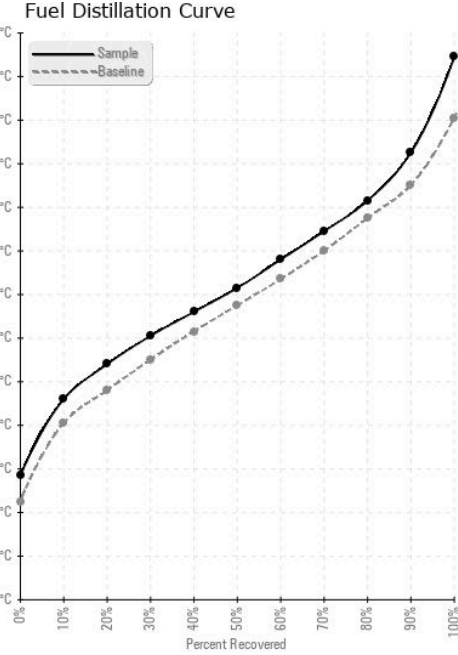


MICROBIAL	method	limit/base	current	history1	history2
Bacteria	CFU/ml ASTM D6469*	>=100000	0	---	0
Yeast	CFU/ml ASTM D6469*	>=100000	0	---	0
Mold	Colonies ASTM D6469*	MODER	NONE	---	NONE

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	0	0
Magnesium	ppm ASTM D5185(m)	<0.1	0	0	0
Phosphorus	ppm ASTM D5185(m)	<0.1	0	0	0
Zinc	ppm ASTM D5185(m)	<0.1	0	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 : 02602445
Unique Number : 5695530
Test Package : FUEL (Additional Tests: Bacteria, CC Flash, GC-PercFuel, 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.