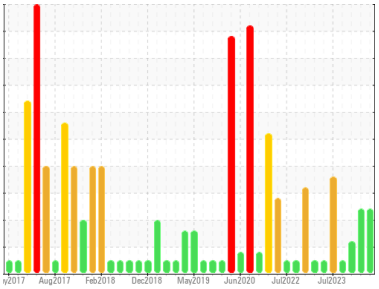
FUEL REPORT

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		**PP13964294**	PP13941989	PP13920747
Sample Date		Client Info		**15 Mar 2024**	07 Jan 2024	07 Nov 2023
Machine Age	hrs	Client Info		**0**	0	0
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	**0.849**	0.853	0.848
Fuel Color	text	Visual Screen*	Yllow	**Yllow**	Yllow	Yllow
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	**2.9**	2.9	2.7
Pensky-Martens Flash Point	°C	ASTM D7215*	52	**64.2**	66.1	65.6

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

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	**176**	177	177
5% Distillation Point	°C	ASTM D2887*		**201**	204	201
10% Distill Point	°C	ASTM D2887*	201	**213**	215	212
15% Distillation Point	°C	ASTM D2887*		**221**	223	220
20% Distill Point	°C	ASTM D2887*	216	**230**	231	228
30% Distill Point	°C	ASTM D2887*	230	**245**	244	241
40% Distill Point	°C	ASTM D2887*	243	**257**	255	252
50% Distill Point	°C	ASTM D2887*	255	**269**	267	263
60% Distill Point	°C	ASTM D2887*	267	**283**	279	276
70% Distill Point	°C	ASTM D2887*	280	**296**	291	289
80% Distill Point	°C	ASTM D2887*	295	**311**	304	303
85% Distillation Point	°C	ASTM D2887*		**322**	315	314
90% Distill Point	°C	ASTM D2887*	310	**333**	326	325
95% Distillation Point	°C	ASTM D2887*		**352**	345	344
Final Boiling Point	°C	ASTM D2887*	341	**377**	374	369

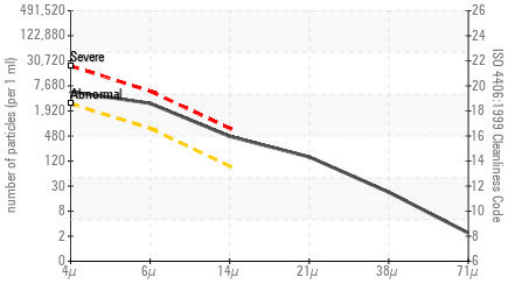
IGNITION QUALITY	method	limit/base	current	history1	history2
API Gravity	ASTM D1298*	37.7	**35**	34	35
Cetane Index	ASTM D4737*	<40.0	**47**	45	46

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	**0**	0	<1
Sodium	ppm	ASTM D5185(m)	<0.1	**<1**	<1	0
Potassium	ppm	ASTM D5185(m)	<0.1	**0**	0	<1
Water	%	ASTM D6304*	<0.05	**0.004**	0.002	0.016
ppm Water	ppm	ASTM D6304*	<500	**43**	20	161

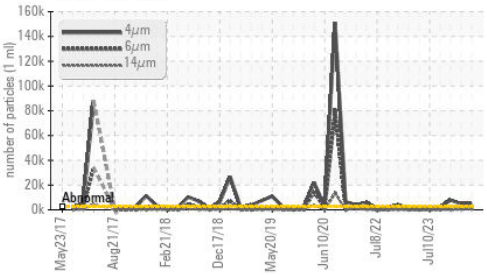
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	**4783**	4966	7732
Particles >6µm	ASTM D7647	>640	**2550**	2023	2458
Particles >14µm	ASTM D7647	>80	**412**	307	49
Particles >21µm	ASTM D7647	>20	**133**	129	4
Particles >38µm	ASTM D7647	>4	**19**	30	1
Particles >71µm	ASTM D7647	>3	**2**	5	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	**19/19/16**	19/18/15	20/18/13

FUEL REPORT

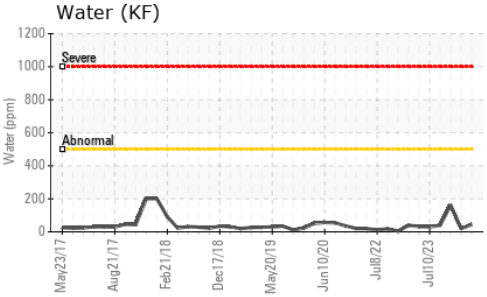
Particle Count



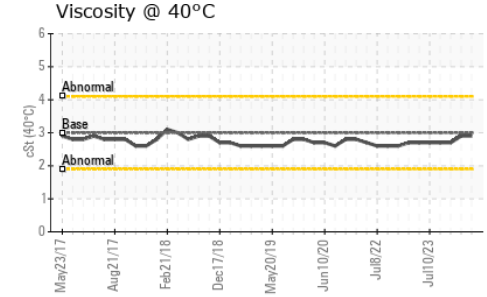
Particle Trend



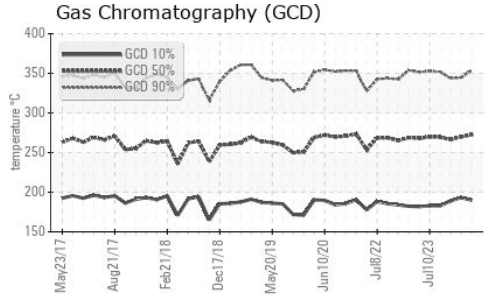
Water (KF)



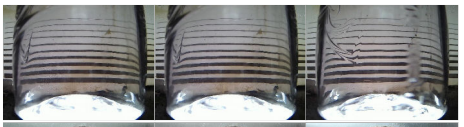
Viscosity @ 40°C



Gas Chromatography (GCD)

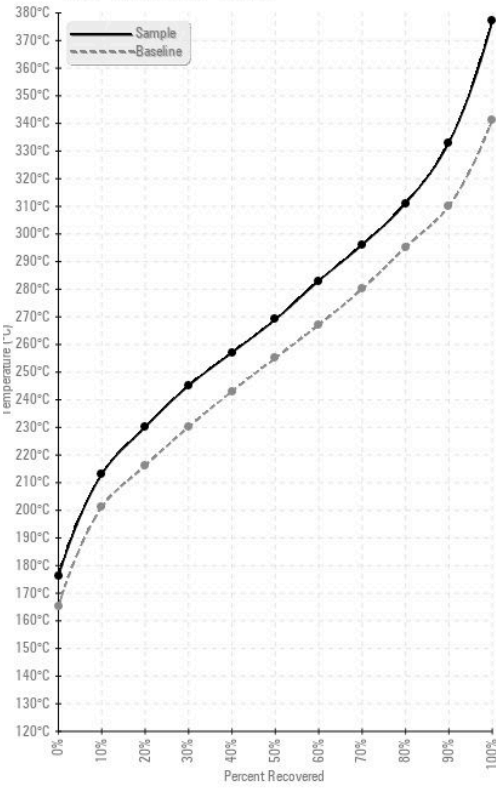


HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	**0**	0	0
Nickel	ppm	ASTM D5185(m)	<0.1	**0**	0	0
Lead	ppm	ASTM D5185(m)	<0.1	**0**	0	0
Vanadium	ppm	ASTM D5185(m)	<0.1	**0**	0	0
Iron	ppm	ASTM D5185(m)	<0.1	**0**	0	<1
Calcium	ppm	ASTM D5185(m)	<0.1	**0**	0	0
Magnesium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

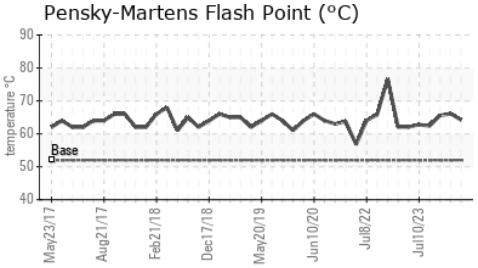
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

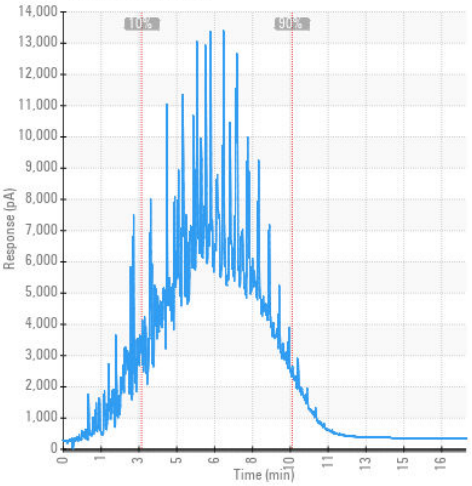
Fuel Distillation Curve



Pensky-Martens Flash Point (°C)



GCD Spectrum



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PP13964294 **Received** : 01 Apr 2024
Lab Number : 02625846 **Tested** : 03 Apr 2024
Unique Number : 5758978 **Diagnosed** : 03 Apr 2024 - Kevin Marson
Test Package : FUEL (Additional Tests: CC Flash, PrtCount)

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.

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