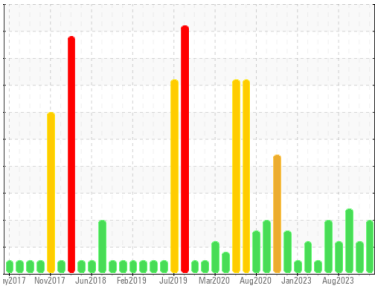
FUEL REPORT

Sample Rating Trend



ISO

Area
A21
Machine Id
ADT911215 TANK RAW DIESEL NE 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.

Contaminants

There is a moderate amount of silt (particulates < 14 microns in size) present in the fuel. 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		**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**	ATTENTION	ABNORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	**0.852**	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	**66.2**	67	64.7

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	**6**	7	8

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	**177**	178	176
5% Distillation Point	°C	ASTM D2887*		**204**	205	200
10% Distill Point	°C	ASTM D2887*	201	**214**	215	211
15% Distillation Point	°C	ASTM D2887*		**223**	223	219
20% Distill Point	°C	ASTM D2887*	216	**231**	232	227
30% Distill Point	°C	ASTM D2887*	230	**244**	245	240
40% Distill Point	°C	ASTM D2887*	243	**256**	256	252
50% Distill Point	°C	ASTM D2887*	255	**267**	267	264
60% Distill Point	°C	ASTM D2887*	267	**280**	279	277
70% Distill Point	°C	ASTM D2887*	280	**292**	291	290
80% Distill Point	°C	ASTM D2887*	295	**306**	304	305
85% Distillation Point	°C	ASTM D2887*		**318**	315	317
90% Distill Point	°C	ASTM D2887*	310	**329**	326	329
95% Distillation Point	°C	ASTM D2887*		**348**	345	350
Final Boiling Point	°C	ASTM D2887*	341	**376**	372	383

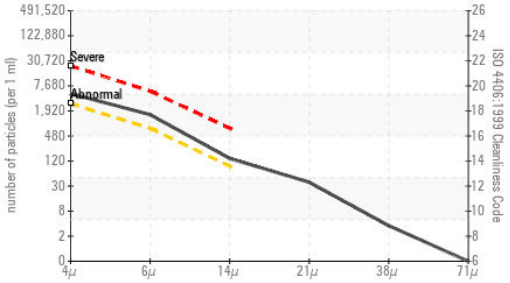
IGNITION QUALITY	method	limit/base	current	history1	history2
API Gravity	ASTM D1298*	37.7	**34**	34	35
Cetane Index	ASTM D4737*	<40.0	**46**	45	46

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	**0**	0	0
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	**0.003**	0.002	0.008
ppm Water	ppm	ASTM D6304*	<500	**27**	20	83

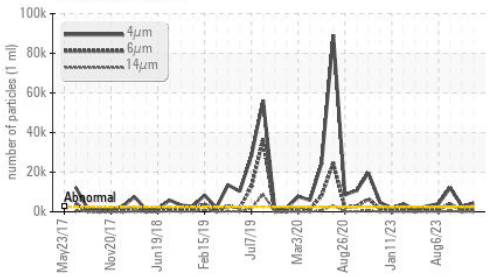
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	**4370**	2793	12128
Particles >6µm	ASTM D7647	>640	**1368**	771	3968
Particles >14µm	ASTM D7647	>80	**122**	37	372
Particles >21µm	ASTM D7647	>20	**33**	6	130
Particles >38µm	ASTM D7647	>4	**3**	0	8
Particles >71µm	ASTM D7647	>3	**0**	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	**19/18/14**	19/17/12	21/19/16

FUEL REPORT

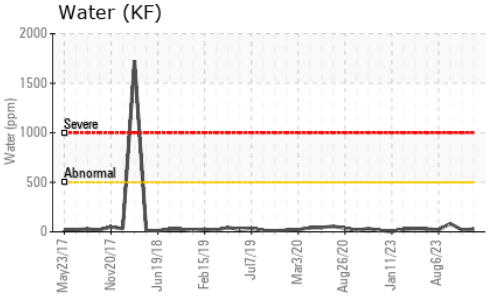
Particle Count



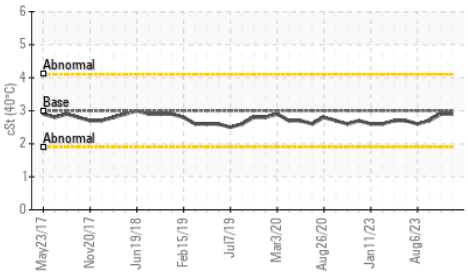
Particle Trend



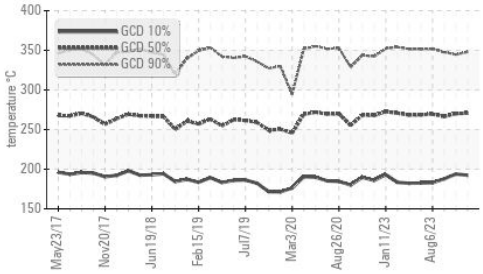
Water (KF)



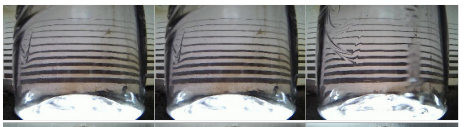
Viscosity @ 40°C



Gas Chromatography (GCD)

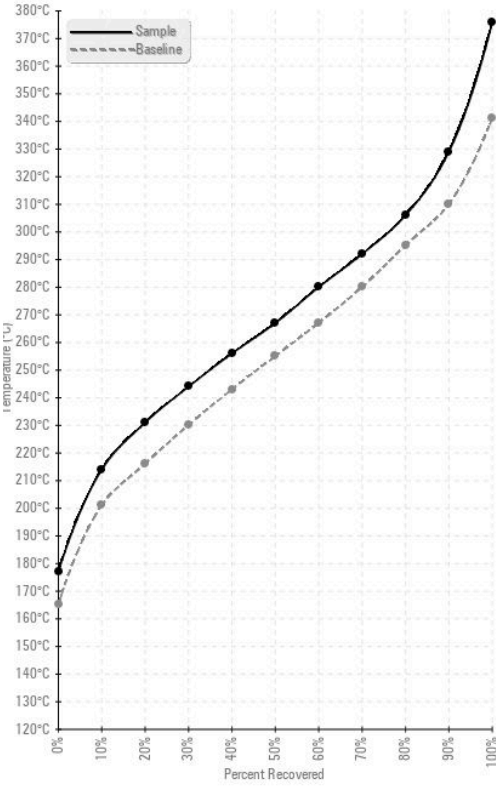


HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	**0**	0	0
Nickel	ppm	ASTM D5185(m)	<0.1	**0**	0	0
Lead	ppm	ASTM D5185(m)	<0.1	**0**	0	0
Vanadium	ppm	ASTM D5185(m)	<0.1	**0**	0	0
Iron	ppm	ASTM D5185(m)	<0.1	**0**	0	<1
Calcium	ppm	ASTM D5185(m)	<0.1	**0**	0	0
Magnesium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

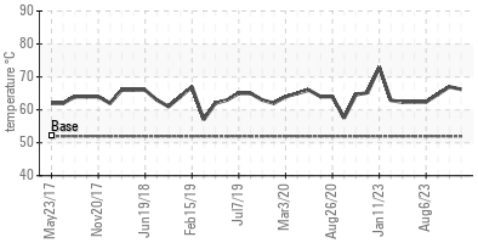
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

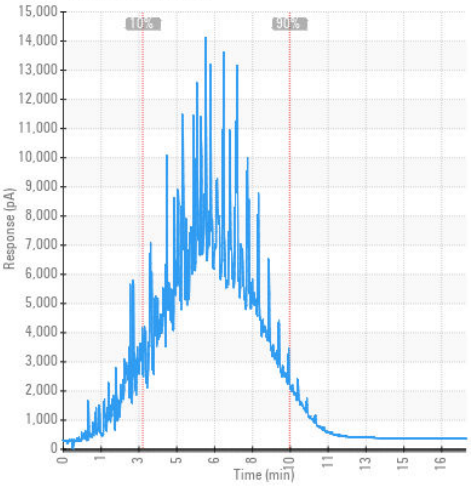
Fuel Distillation Curve



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 : 02625849 **Tested** : 03 Apr 2024
Unique Number : 5758981 **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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