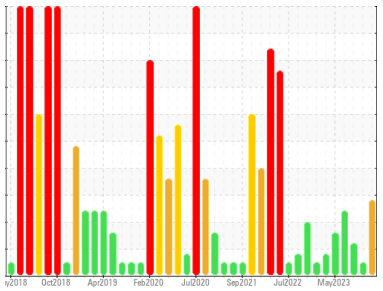
FUEL REPORT

Sample Rating Trend



WATER

Machine Id
TDT411202B DIESEL DAY TANK FIRE WATER PUMP B
Component
Diesel Fuel
Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We advise that you filter this fluid before use. We advise that you follow the water drain-off procedure for this component. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Contaminants

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

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).

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	days	Client Info		**0**	0	0
Sample Status				**ABNORMAL**	NORMAL	ATTENTION

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	**0.841**	0.840	0.839
Fuel Color	text	Visual Screen*	Yllow	**Yllow**	Yllow	Yllow
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	**2.8**	2.7	2.7
Pensky-Martens Flash Point	°C	ASTM D7215*	52	**63**	64.6	64

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

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	**174**	175	175
5% Distillation Point	°C	ASTM D2887*		**197**	196	197
10% Distill Point	°C	ASTM D2887*	201	**208**	207	208
15% Distillation Point	°C	ASTM D2887*		**217**	215	217
20% Distill Point	°C	ASTM D2887*	216	**225**	224	225
30% Distill Point	°C	ASTM D2887*	230	**241**	239	240
40% Distill Point	°C	ASTM D2887*	243	**254**	252	253
50% Distill Point	°C	ASTM D2887*	255	**266**	265	265
60% Distill Point	°C	ASTM D2887*	267	**280**	279	279
70% Distill Point	°C	ASTM D2887*	280	**294**	293	292
80% Distill Point	°C	ASTM D2887*	295	**309**	309	307
85% Distillation Point	°C	ASTM D2887*		**320**	320	317
90% Distill Point	°C	ASTM D2887*	310	**331**	332	328
95% Distillation Point	°C	ASTM D2887*		**350**	352	345
Final Boiling Point	°C	ASTM D2887*	341	**379**	379	363

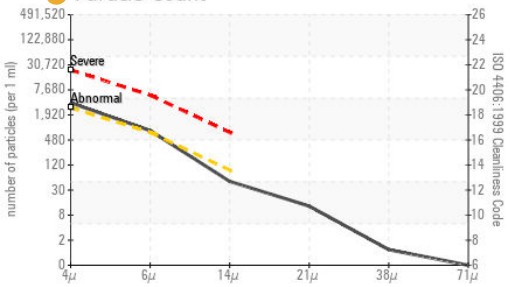
IGNITION QUALITY	method	limit/base	current	history1	history2
API Gravity	ASTM D1298*	37.7	**36**	36	37
Cetane Index	ASTM D4737*	<40.0	**49**	49	50

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**	0	0
Potassium	ppm	ASTM D5185(m)	<0.1	**0**	<1	<1
Water	%	ASTM D6304*	<0.05	**0.004**	0.008	0.004
ppm Water	ppm	ASTM D6304*	<500	**41**	85	48.0

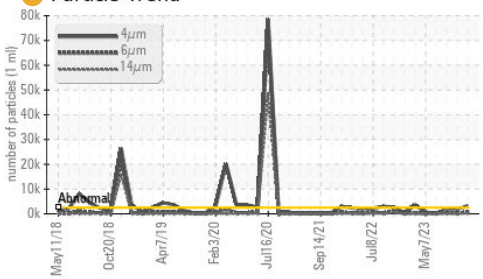
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	**3287**	1734	1897
Particles >6µm	ASTM D7647	>640	**707**	221	418
Particles >14µm	ASTM D7647	>80	**43**	7	106
Particles >21µm	ASTM D7647	>20	**11**	1	35
Particles >38µm	ASTM D7647	>4	**1**	0	0
Particles >71µm	ASTM D7647	>3	**0**	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	**19/17/13**	18/15/10	18/16/14

FUEL REPORT

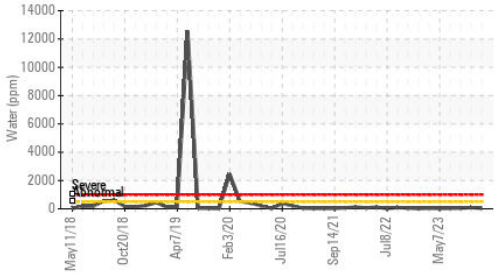
Particle Count



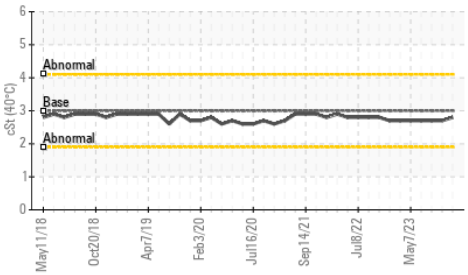
Particle Trend



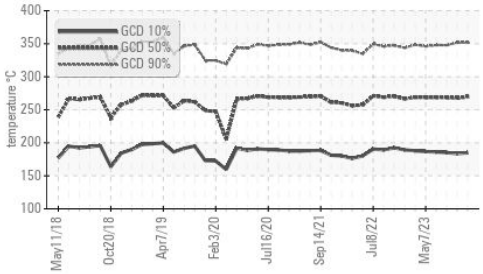
Water (KF)



Viscosity @ 40°C



Gas Chromatography (GCD)



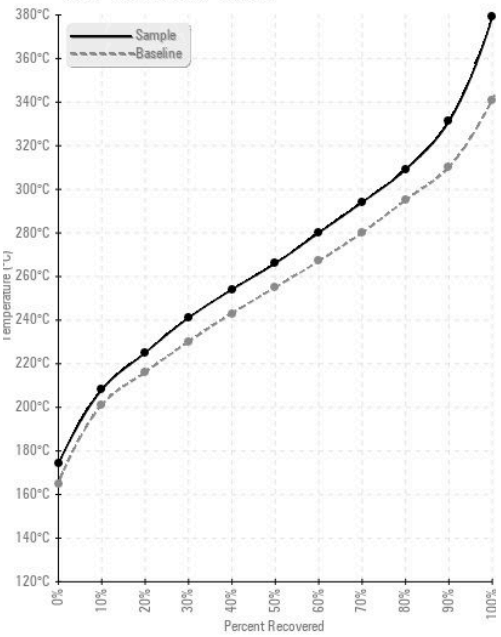
MICROBIAL		method	limit/base	current	history1	history2
Bacteria	CFU/ml	ASTM D6469*	>=100000	**0**	---	---
Yeast	CFU/ml	ASTM D6469*	>=100000	**0**	---	---
Mold	Colonies	ASTM D6469*	MODER	**NONE**	---	---

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	**0**	<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	**<1**	<1	0
Zinc	ppm	ASTM D5185(m)	<0.1	**0**	0	0

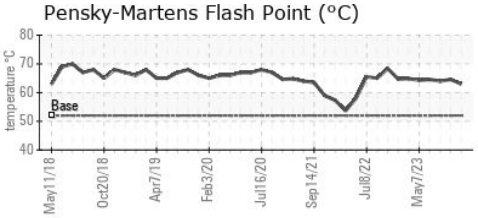
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

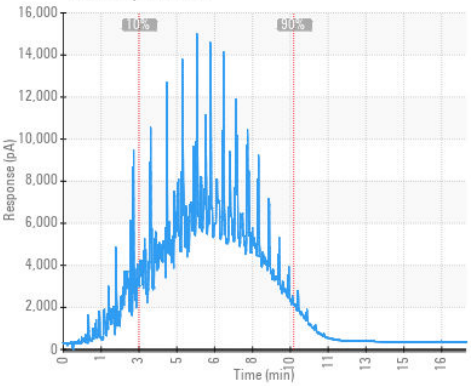
Fuel Distillation Curve



Pensky-Martens Flash Point (°C)



GCD Spectrum



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PP13941989 **Received** : 01 Apr 2024
Lab Number : 02625837 **Tested** : 09 Apr 2024
Unique Number : 5758969 **Diagnosed** : 09 Apr 2024 - Kevin Marson
Test Package : FUEL (Additional Tests: Bacteria, 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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