



FUEL REPORT

Sample Rating Trend

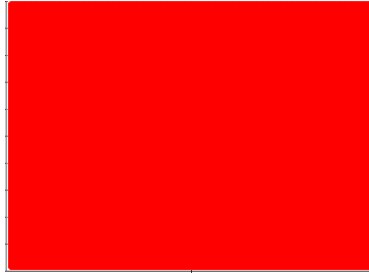
ISO



Area
[59665]
Machine Id
4475

Component
Diesel Fuel
Fluid

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)



DIAGNOSIS

Recommendation

We advise that you check all areas where contaminants can enter the system. We advise that you filter this fluid before use. We advise that you follow the water drain-off procedure for this component. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.

Corrosion

(not applicable)

Contaminants

There is a high amount of particulates (2 to 100 microns in size) present in the fuel. Excessive free water present. There is no bacteria or fungus (yeast and/or mold) present in the sample.

Fuel Condition

Urea content is high at 35.8%. The fuel is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0781426	---	---
Sample Date	Client Info			14 Jun 2023	---	---
Machine Age	hrs	Client Info		0	---	---
Sample Status				SEVERE	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.842	---	---
Fuel Color	text	Visual Screen*	Yellow	Yellow	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.6	---	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	57	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	9	---	---

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	169	---	---
5% Distillation Point	°C	ASTM D2887*		197	---	---
10% Distill Point	°C	ASTM D2887*	201	207	---	---
15% Distillation Point	°C	ASTM D2887*		215	---	---
20% Distill Point	°C	ASTM D2887*	216	223	---	---
30% Distill Point	°C	ASTM D2887*	230	237	---	---
40% Distill Point	°C	ASTM D2887*	243	250	---	---
50% Distill Point	°C	ASTM D2887*	255	263	---	---
60% Distill Point	°C	ASTM D2887*	267	277	---	---
70% Distill Point	°C	ASTM D2887*	280	290	---	---
80% Distill Point	°C	ASTM D2887*	295	306	---	---
85% Distillation Point	°C	ASTM D2887*		316	---	---
90% Distill Point	°C	ASTM D2887*	310	325	---	---
95% Distillation Point	°C	ASTM D2887*		339	---	---
Final Boiling Point	°C	ASTM D2887*	341	362	---	---

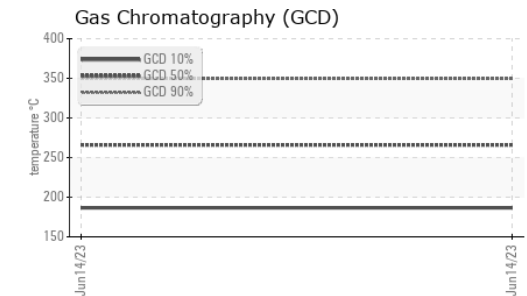
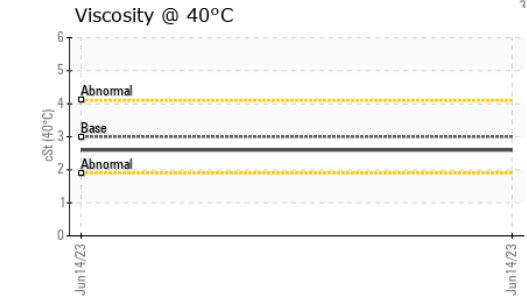
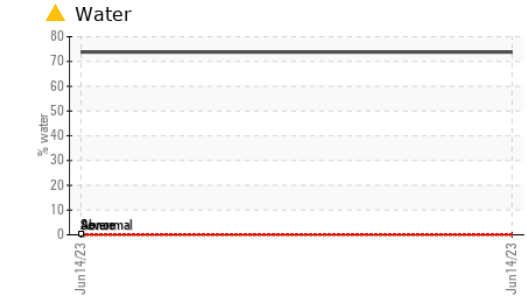
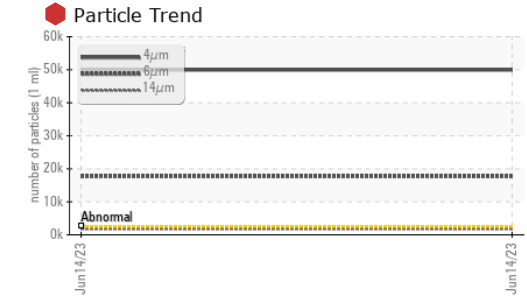
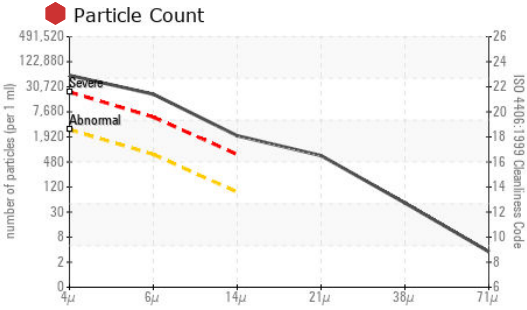
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	36	---	---
Cetane Index		ASTM D4737*	<40.0	48	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0	---	---
Sodium	ppm	ASTM D5185(m)	<0.1	0	---	---
Potassium	ppm	ASTM D5185(m)	<0.1	0	---	---
Water	%	ASTM D6304*	<0.05	73.8	---	---
ppm Water	ppm	ASTM D6304*	<500	738000	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	49930	---	---
Particles >6µm		ASTM D7647	>640	17710	---	---
Particles >14µm		ASTM D7647	>80	1793	---	---
Particles >21µm		ASTM D7647	>20	600	---	---
Particles >38µm		ASTM D7647	>4	44	---	---
Particles >71µm		ASTM D7647	>3	3	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	23/21/18	---	---



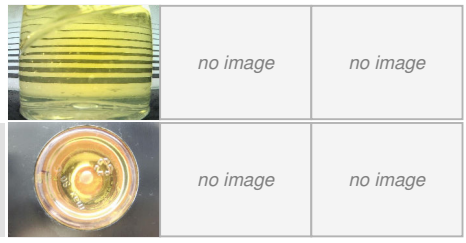
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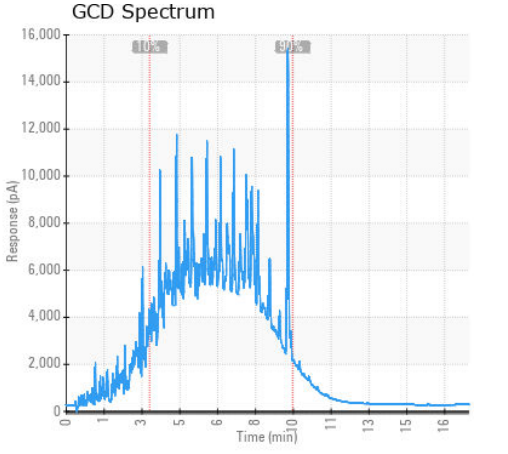
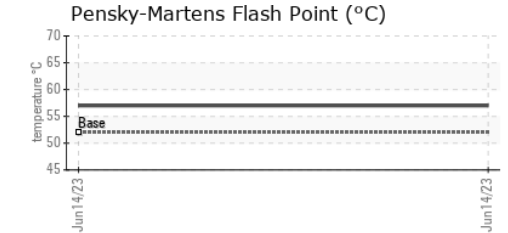
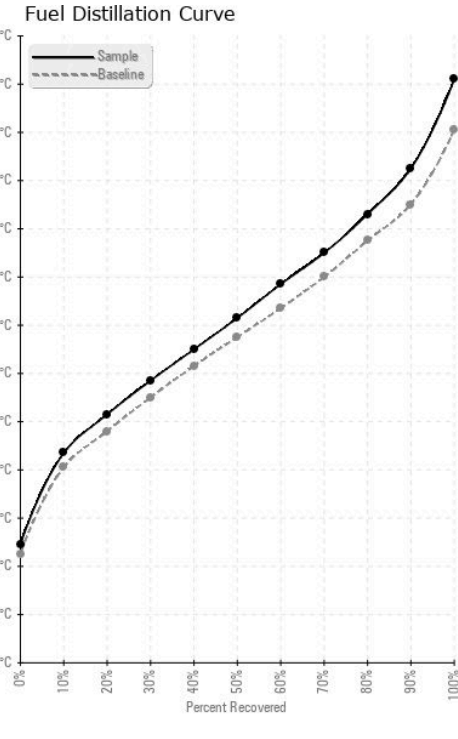
MICROBIAL	method	limit/base	current	history1	history2
Bacteria	CFU/ml ASTM D6469*	>=100000	0	---	---
Yeast	CFU/ml ASTM D6469*	>=100000	0	---	---
Mold	Colonies ASTM D6469*	MODER	NONE	---	---

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

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 PERFORMANCE EQUIPMENT - VISION TRUCK
Sample No. : WC0781426 **Received** : 15 Jun 2023 415 EVANS AVENUE
Lab Number : 02564565 **Diagnosed** : 20 Jun 2023 ETOBICOKE, ON
Unique Number : 5593606 **Diagnostician** : Kevin Marson CA M8W 0B3
Test Package : FUEL (Additional Tests: Bacteria, CC Flash, GC-PercFuel, PrtCount) Contact: Service
 etobservice@visiontruckgroup.com
 To discuss this sample report, contact Customer Service at 1-800-268-2131. T:
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F:
 Validity of results and interpretation are based on the sample and information as supplied.