



FUEL REPORT

Sample Rating Trend

WEAR



Area
[6100129533]
Machine Id
GD10689

Component
Diesel Fuel
Fluid

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



DIAGNOSIS

Recommendation

Nous vous recommandons de filtrer ce fluide avant de l'utiliser. Nous recommandons le remplacement des filtres de ce composant. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

Corrosion

La concentration des métaux est élevée indiquant la présence de corrosion dans le système.

Contaminants

Il y a une légère quantité de limon (particules de 4 à 14 microns) dans le carburant. La teneur en eau est négligeable.

Fuel Condition

le carburant ne peut plus être utilisée en raison de la présence de contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			GD0005912	---	---
Sample Date	Client Info			23 Mar 2023	---	---
Machine Age	yrs	Client Info		0	---	---
Sample Status				SEVERE	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.834	---	---
Fuel Color	text	Visual Screen*	Yellow	Pink	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.3	---	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	56.7	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	5	---	---

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	168	---	---
5% Distillation Point	°C	ASTM D2887*		188	---	---
10% Distill Point	°C	ASTM D2887*	201	197	---	---
15% Distillation Point	°C	ASTM D2887*		204	---	---
20% Distill Point	°C	ASTM D2887*	216	211	---	---
30% Distill Point	°C	ASTM D2887*	230	225	---	---
40% Distill Point	°C	ASTM D2887*	243	238	---	---
50% Distill Point	°C	ASTM D2887*	255	252	---	---
60% Distill Point	°C	ASTM D2887*	267	266	---	---
70% Distill Point	°C	ASTM D2887*	280	281	---	---
80% Distill Point	°C	ASTM D2887*	295	298	---	---
85% Distillation Point	°C	ASTM D2887*		310	---	---
90% Distill Point	°C	ASTM D2887*	310	322	---	---
95% Distillation Point	°C	ASTM D2887*		342	---	---
Final Boiling Point	°C	ASTM D2887*	341	366	---	---

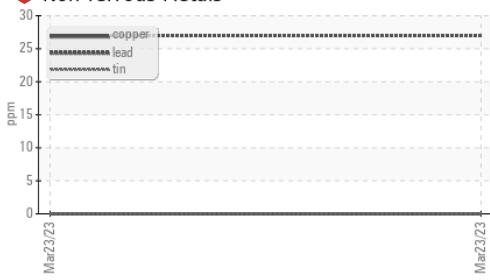
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	38	---	---
Cetane Index		ASTM D4737*	<40.0	48	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0	---	---
Sodium	ppm	ASTM D5185(m)	<0.1	<1	---	---
Potassium	ppm	ASTM D5185(m)	<0.1	0	---	---
Water	%	ASTM D6304*	<0.05	0.001	---	---
ppm Water	ppm	ASTM D6304*	<500	9.7	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	▲ 4398	---	---
Particles >6µm		ASTM D7647	>640	▲ 1143	---	---
Particles >14µm		ASTM D7647	>80	30	---	---
Particles >21µm		ASTM D7647	>20	7	---	---
Particles >38µm		ASTM D7647	>4	0	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	▲ 19/17/12	---	---

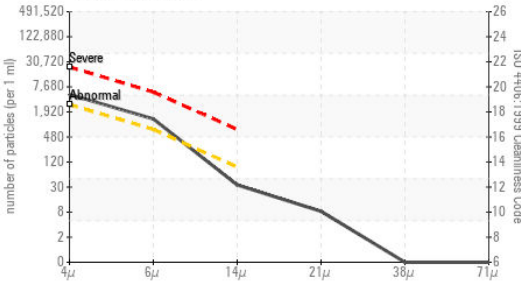
FUEL REPORT

Non-ferrous Metals



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	27	---	---
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	<1	---	---
Phosphorus	ppm	ASTM D5185(m)	<0.1	<1	---	---
Zinc	ppm	ASTM D5185(m)	<0.1	<1	---	---

Particle Count



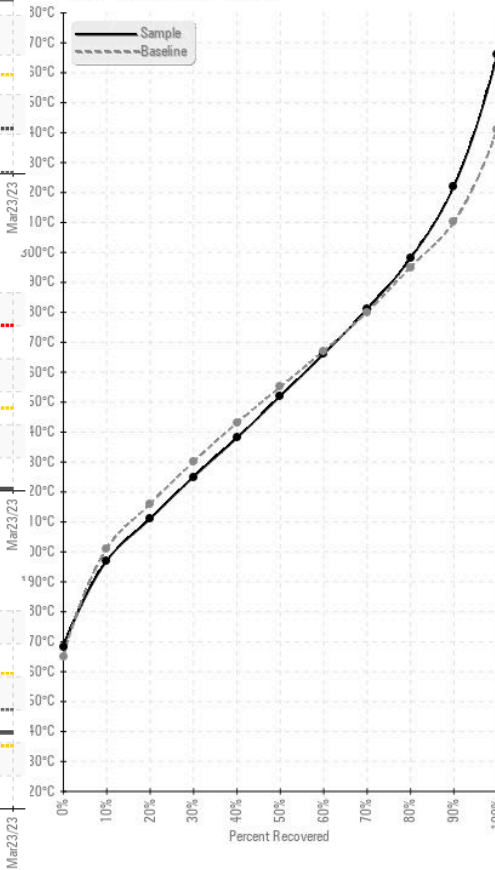
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				no image	no image	
Bottom				no image	no image	

Particle Trend

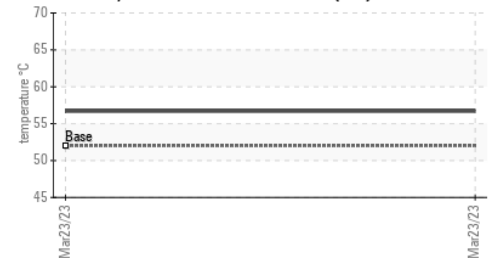


GRAPHS

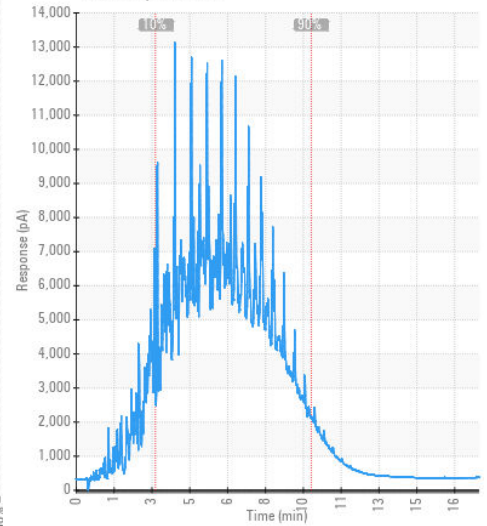
Fuel Distillation Curve



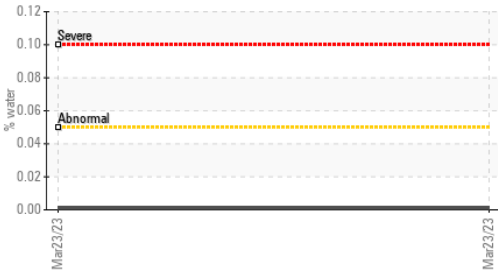
Pensky-Martens Flash Point (°C)



GCD Spectrum



Water



Viscosity @ 40°C



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GD0005912 **Received** : 28 Mar 2023
Lab Number : 02548223 **Diagnosed** : 03 Apr 2023
Unique Number : 5553233 **Diagnostician** : Kevin Marson
Test Package : FUEL (Additional Tests: CC Flash, GC-PercFuel, PrtCount)

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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.