



OIL ANALYSIS REPORT

Sample Rating Trend

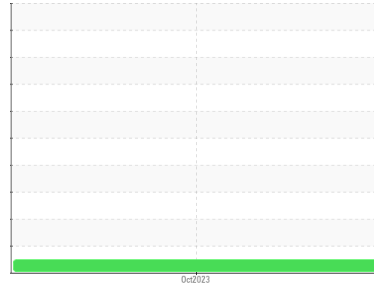
NORMAL



Machine Id
FREIGHTLINER 128

Component
Diesel Fuel
Fluid

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



DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample. Please contact your representative for information regarding the proper sampling kits for your service.

Corrosion

{not applicable}

Contaminants

There is no indication of any contamination in the component(unconfirmed).

Fuel Condition

Not enough sample submitted to determine fuel condition and/or classification.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0864505	---	---
Sample Date	Client Info			04 Oct 2023	---	---
Machine Age	kms	Client Info		815492	---	---
Sample Status				NORMAL	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>2	<1	---	---
Chromium	ppm	ASTM D5185(m)	>2	0	---	---
Nickel	ppm	ASTM D5185(m)	>2	0	---	---
Titanium	ppm	ASTM D5185(m)	>2	0	---	---
Silver	ppm	ASTM D5185(m)	>2	0	---	---
Aluminum	ppm	ASTM D5185(m)	>2	0	---	---
Lead	ppm	ASTM D5185(m)	>2	0	---	---
Copper	ppm	ASTM D5185(m)	>2	0	---	---
Tin	ppm	ASTM D5185(m)	>2	0	---	---
Antimony	ppm	ASTM D5185(m)	>2	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
Beryllium	ppm	ASTM D5185(m)	>2	0	---	---
Cadmium	ppm	ASTM D5185(m)		0	---	---

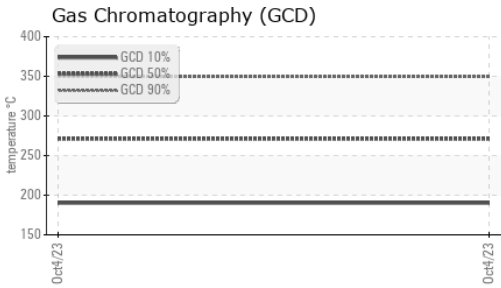
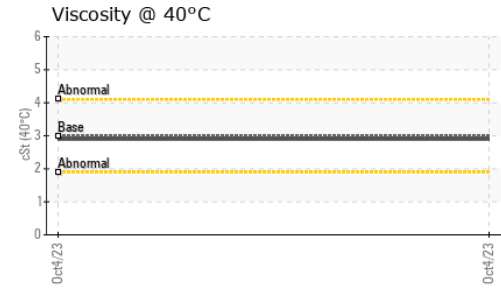
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	0	---	---
Barium	ppm	ASTM D5185(m)	2	0	---	---
Molybdenum	ppm	ASTM D5185(m)	2	0	---	---
Manganese	ppm	ASTM D5185(m)		0	---	---
Magnesium	ppm	ASTM D5185(m)	2	0	---	---
Calcium	ppm	ASTM D5185(m)	2	0	---	---
Phosphorus	ppm	ASTM D5185(m)	2	0	---	---
Zinc	ppm	ASTM D5185(m)	2	<1	---	---
Sulfur	ppm	ASTM D5185(m)	10	13	---	---
Lithium	ppm	ASTM D5185(m)		<1	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>10	0	---	---
Sodium	ppm	ASTM D5185(m)	>5	0	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.05	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---



OIL ANALYSIS REPORT



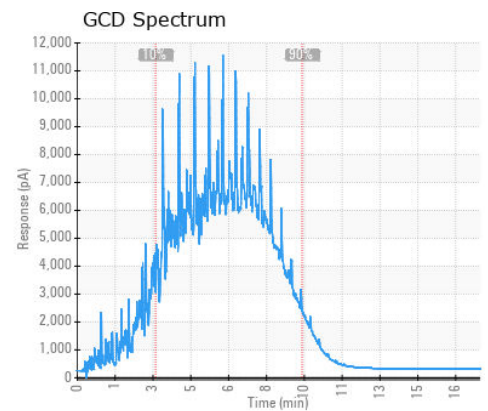
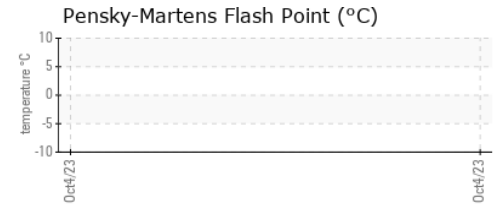
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.9	---	---

SIMULATED DISTILLATION (GCD)		method	limit/base	current	history1	history2
(GCD) % < 335°C	°C	ASTM D2887*		84.25	---	---
(GCD) Initial Boiling Point	°C	ASTM D2887*		103.7	---	---
(GCD) 5% Distillation Point	°C	ASTM D2887*		169.4	---	---
(GCD) 10% Distillation Point	°C	ASTM D2887*		190.2	---	---
(GCD) 20% Distillation Point	°C	ASTM D2887*		214.8	---	---
(GCD) 30% Distillation Point	°C	ASTM D2887*		234.6	---	---
(GCD) 40% Distillation Point	°C	ASTM D2887*		253.2	---	---
(GCD) 50% Distillation Point	°C	ASTM D2887*		271.2	---	---
(GCD) 60% Distillation Point	°C	ASTM D2887*		288.4	---	---
(GCD) 70% Distillation Point	°C	ASTM D2887*		305.7	---	---
(GCD) 80% Distillation Point	°C	ASTM D2887*		324.9	---	---
(GCD) 90% Distillation Point	°C	ASTM D2887*		349.4	---	---
(GCD) FBP% Distillation Point	°C	ASTM D2887*		492.2	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------

Color					
Bottom					

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **MANITOULIN TRANSPORT (GARAGE)**
Sample No. : WC0864505 **Received** : 20 Oct 2023 1335 SHAWSON DRIVE
Lab Number : **02590792** **Diagnosed** : 23 Oct 2023 MISSISSAUGA, ON
Unique Number : 5659858 **Diagnostician** : Kevin Marson CA L4W 1C4
Test Package : MOB 1 (Additional Tests: GC-PercFuel, GCD) Contact: Patrick Morin

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.

pmorin@manitoulintransport.com
 T:
 F: (905)564-6361