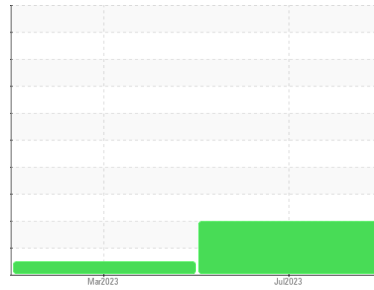




PROBLEM SUMMARY

Sample Rating Trend



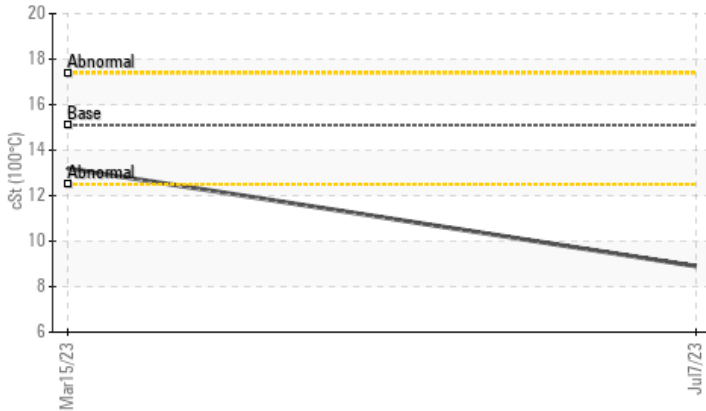
DIRT



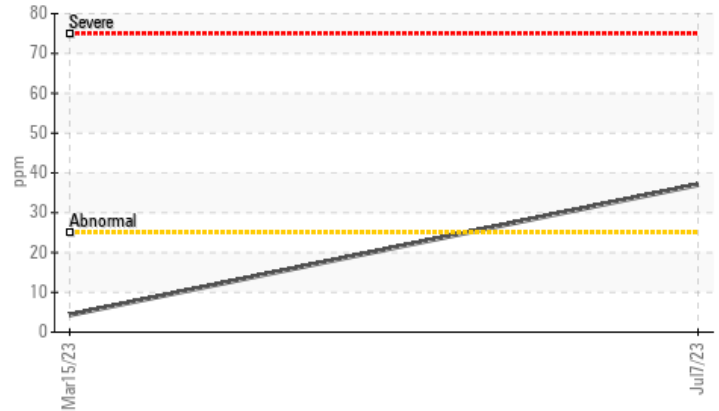
Machine Id
MACK 724025
 Component
Diesel Engine
 Fluid
CHEVRON DELO 400 MULTIGRADE 15W40 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Viscosity @ 100°C



▲ Silicon (ppm)



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL	---
Silicon	ppm	ASTM D5185m	>25	▲ 37	4	---
Visc @ 100°C	cSt	ASTM D445	15.1	▲ 8.9	13.2	---

Customer Id: GFL409
 Sample No.: GFL0079530
 Lab Number: 05897924
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

15 Mar 2023 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Metal levels are typical for a components first oil change. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report





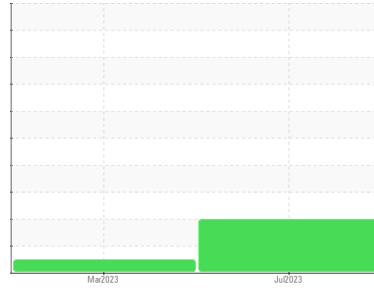
OIL ANALYSIS REPORT

Sample Rating Trend

DIRT



Machine Id
MACK 724025
 Component
Diesel Engine
 Fluid
CHEVRON DELO 400 MULTIGRADE 15W40 (--- GAL)



DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. Elemental level of silicon (Si) above normal.

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0079530	GFL0076861	---
Sample Date	Client Info	07 Jul 2023	15 Mar 2023	---
Machine Age	hrs	35522	34970	---
Oil Age	hrs	35522	34970	---
Oil Changed	Client Info	Changed	Changed	---
Sample Status		ABNORMAL	NORMAL	---

CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	NEG	NEG	---

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >120	12	6	---
Chromium	ppm	ASTM D5185m >20	0	<1	---
Nickel	ppm	ASTM D5185m >5	0	0	---
Titanium	ppm	ASTM D5185m >2	0	<1	---
Silver	ppm	ASTM D5185m >2	0	0	---
Aluminum	ppm	ASTM D5185m >20	4	2	---
Lead	ppm	ASTM D5185m >40	1	<1	---
Copper	ppm	ASTM D5185m >330	21	<1	---
Tin	ppm	ASTM D5185m >15	2	<1	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	105	184	---
Barium	ppm	ASTM D5185m	0	0	---
Molybdenum	ppm	ASTM D5185m	52	94	---
Manganese	ppm	ASTM D5185m	<1	1	---
Magnesium	ppm	ASTM D5185m	265	778	---
Calcium	ppm	ASTM D5185m	669	1388	---
Phosphorus	ppm	ASTM D5185m 1360	588	792	---
Zinc	ppm	ASTM D5185m 1480	732	1008	---
Sulfur	ppm	ASTM D5185m	1965	3008	---

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	▲ 37	4	---
Sodium	ppm	ASTM D5185m	0	1	---
Potassium	ppm	ASTM D5185m >20	1	1	---
Fuel	%	ASTM D3524 >3.0	1.2	<1.0	---

INFRA-RED

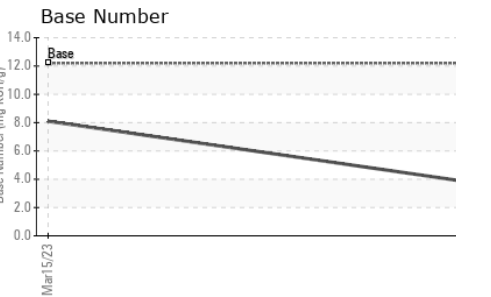
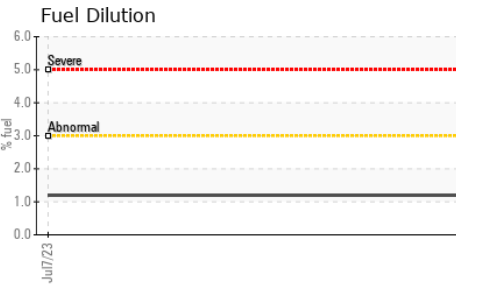
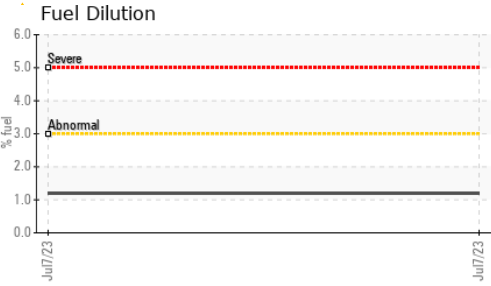
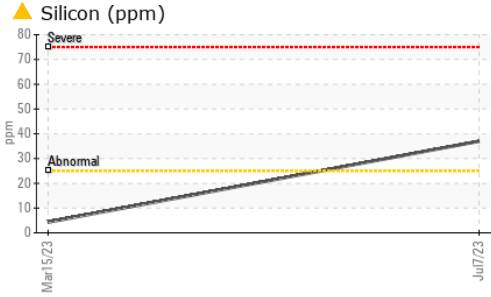
method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844 >4	1	0.2	---
Nitration	Abs/cm	*ASTM D7624 >20	4.2	8.2	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	17.3	22.0	---

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	9.0	16.5	---
Base Number (BN)	mg KOH/g	ASTM D2896 12.2	3.7	8.1	---



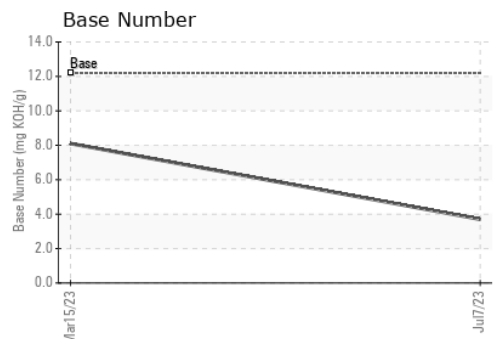
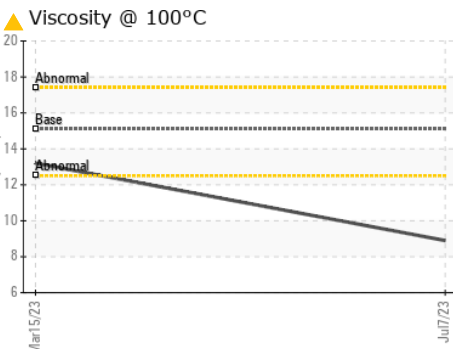
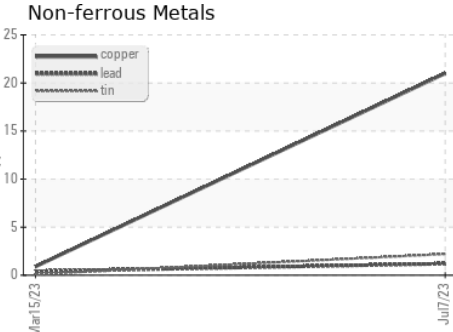
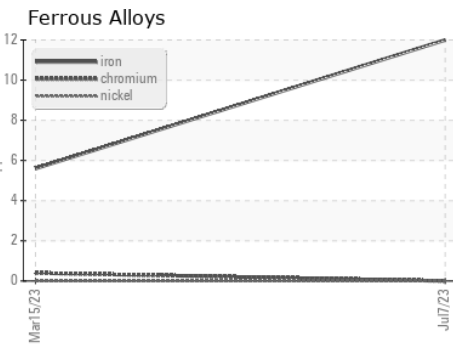
OIL ANALYSIS REPORT



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	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1 ▲ 8.9	13.2	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0079530 **Received** : 13 Jul 2023
Lab Number : 05897924 **Diagnosed** : 17 Jul 2023
Unique Number : 10559280 **Diagnostician** : Don Baldrige
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

GFL Environmental - 409 - Wood Island LF
 E10081 State Hwy M28
 Wetmore, MI
 US 49895
 Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:
F: