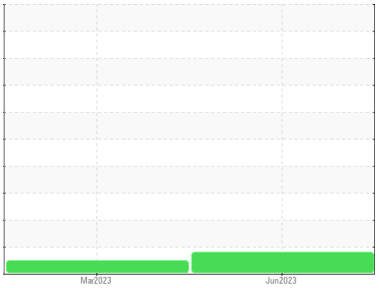
PROBLEM SUMMARY

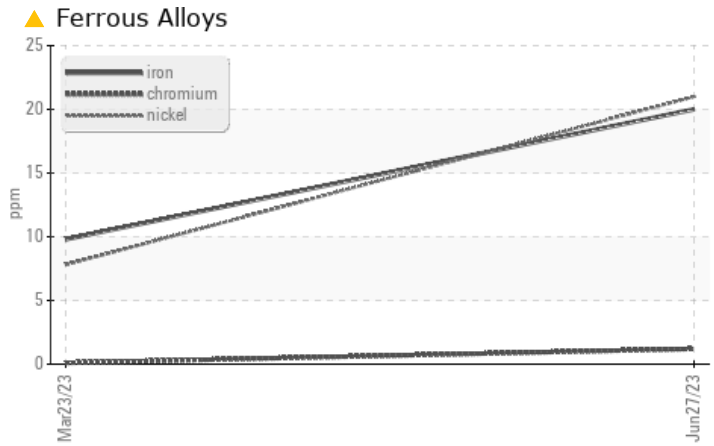
Sample Rating Trend



WEAR

Machine Id
Front load trash truck
Component
1 Diesel Engine
Fluid
CHEVRON DELO 400 XLE 15W40 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	NORMAL	---
Nickel	ppm	ASTM D5185m	>4	▲ **21**	8	---

Customer Id: GFL624
Sample No.: GFL0064483
Lab Number: 05888207
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +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

23 Mar 2023 Diag: Don Baldridge

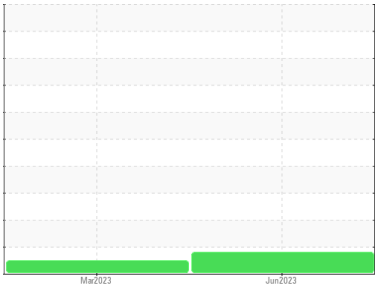
NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. 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



WEAR

Machine Id
Front load trash truck
Component
1 Diesel Engine
Fluid
CHEVRON DELO 400 XLE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

Valve wear is indicated. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history 1	history 2
Sample Number		Client Info		**GFL0064483**	GFL0064453	---
Sample Date		Client Info		**27 Jun 2023**	23 Mar 2023	---
Machine Age	hrs	Client Info		**4844**	883	---
Oil Age	hrs	Client Info		**600**	0	---
Oil Changed		Client Info		**Changed**	Changed	---
Sample Status				**ABNORMAL**	NORMAL	---

CONTAMINATION		method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	**<1.0**	<1.0	---
Glycol		WC Method		**NEG**	NEG	---

WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>100	**20**	10	---
Chromium	ppm	ASTM D5185m	>20	**1**	<1	---
Nickel	ppm	ASTM D5185m	>4	▲ **21**	8	---
Titanium	ppm	ASTM D5185m		**5**	11	---
Silver	ppm	ASTM D5185m	>3	**0**	0	---
Aluminum	ppm	ASTM D5185m	>20	**<1**	1	---
Lead	ppm	ASTM D5185m	>40	**<1**	<1	---
Copper	ppm	ASTM D5185m	>330	**9**	38	---
Tin	ppm	ASTM D5185m	>15	**1**	<1	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		**137**	148	---
Barium	ppm	ASTM D5185m		**0**	0	---
Molybdenum	ppm	ASTM D5185m		**90**	51	---
Manganese	ppm	ASTM D5185m		**1**	1	---
Magnesium	ppm	ASTM D5185m		**635**	761	---
Calcium	ppm	ASTM D5185m		**1475**	1639	---
Phosphorus	ppm	ASTM D5185m	760	**655**	743	---
Zinc	ppm	ASTM D5185m	830	**827**	930	---
Sulfur	ppm	ASTM D5185m	2770	**2737**	3662	---

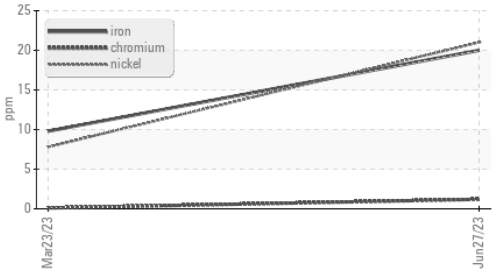
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	**8**	10	---
Sodium	ppm	ASTM D5185m		**3**	3	---
Potassium	ppm	ASTM D5185m	>20	**2**	4	---

INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	**0.2**	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	**5.5**	7.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	**19.5**	19.4	---

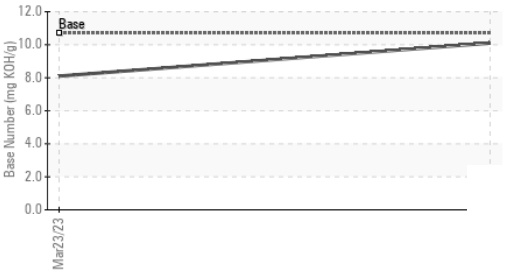
FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**14.3**	13.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	**10.1**	8.1	---

OIL ANALYSIS REPORT

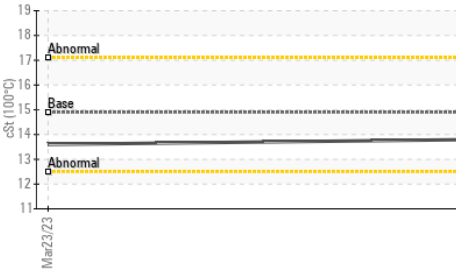
Ferrous Alloys



Base Number



Viscosity @ 100°C



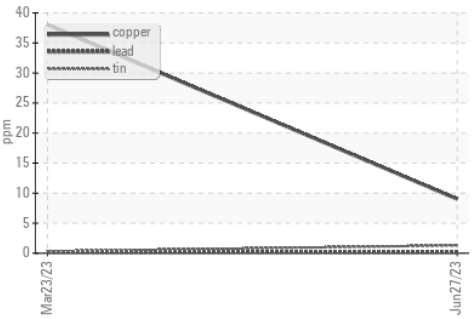
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	---
Appearance	scalar	*Visual	NORML	**NORML**	NORML	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual	>0.2	**NEG**	NEG	---
Free Water	scalar	*Visual		**NEG**	NEG	---

FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 100°C	cSt	ASTM D445	14.9	**13.8**	13.6	---

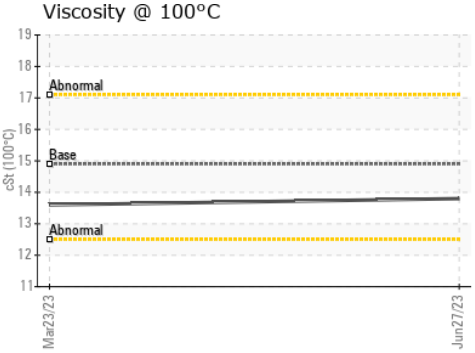
GRAPHS

Ferrous Alloys

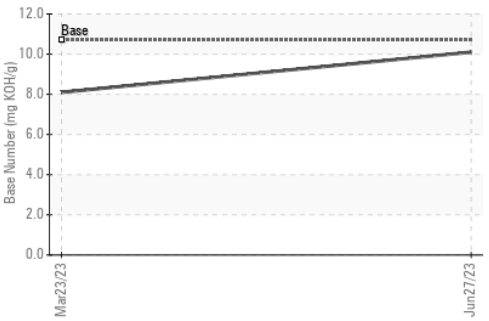
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0064483 **Received** : 30 Jun 2023
Lab Number : 05888207 **Diagnosed** : 04 Jul 2023
Unique Number : 10538690 **Diagnostician** : Don Baldridge
Test Package : FLEET

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)

GFL Environmental - 624 - Elmira Hauling
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Elmira, MI
US 49730
Contact: ANDY GROBASKI
andyg@americanwaste.org
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Report Id: GFL624 [WUSCAR] 05888207 (Generated: 07/04/2023 16:20:10) Rev: 1

Submitted By: KEITH CAMPBELL