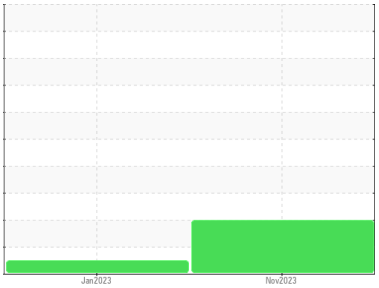
PROBLEM SUMMARY

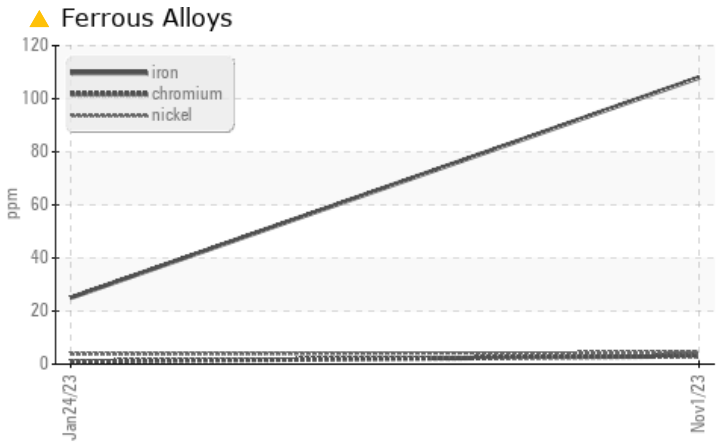
Machine Id
912105
Component
Diesel Engine
Fluid
NOT GIVEN (60 QTS)

Sample Rating Trend



DEGRADATION

COMPONENT CONDITION SUMMARY



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	---
Iron	ppm	ASTM D5185m	>120	▲ **108**	25	---
Base Number (BN)	mg KOH/g	ASTM D2896		▲ **0.0**	5.5	---

Customer Id: GFL005
Sample No.: GFL0092656
Lab Number: 05998820
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

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

24 Jan 2023 Diag: Don Baldridge

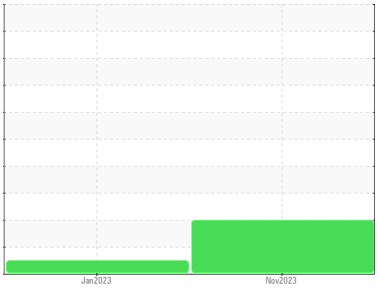
NORMAL

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



DEGRADATION

Machine Id
912105
Component
Diesel Engine
Fluid
NOT GIVEN (60 QTS)

DIAGNOSIS

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

Wear
Cylinder, crank, or cam shaft wear is indicated.

Contamination
There is no indication of any contamination in the oil.

Fluid Condition
The BN level is low. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0092656**	GFL0072357	---
Sample Date		Client Info		**01 Nov 2023**	24 Jan 2023	---
Machine Age	hrs	Client Info		**2300**	2300	---
Oil Age	hrs	Client Info		**622**	2300	---
Oil Changed		Client Info		**Changed**	Not Changd	---
Sample Status				**ABNORMAL**	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	**<1.0**	<1.0	---
Glycol		WC Method		**NEG**	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	▲ **108**	25	---
Chromium	ppm	ASTM D5185m	>20	**3**	1	---
Nickel	ppm	ASTM D5185m	>15	**4**	4	---
Titanium	ppm	ASTM D5185m	>2	**0**	0	---
Silver	ppm	ASTM D5185m	>3	**<1**	<1	---
Aluminum	ppm	ASTM D5185m	>20	**4**	2	---
Lead	ppm	ASTM D5185m	>40	**8**	1	---
Copper	ppm	ASTM D5185m	>330	**15**	16	---
Tin	ppm	ASTM D5185m	>15	**3**	1	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**7**	3	---
Barium	ppm	ASTM D5185m		**0**	0	---
Molybdenum	ppm	ASTM D5185m		**65**	60	---
Manganese	ppm	ASTM D5185m		**2**	<1	---
Magnesium	ppm	ASTM D5185m		**973**	891	---
Calcium	ppm	ASTM D5185m		**1229**	1067	---
Phosphorus	ppm	ASTM D5185m		**1028**	883	---
Zinc	ppm	ASTM D5185m		**1365**	1135	---
Sulfur	ppm	ASTM D5185m		**2325**	2534	---

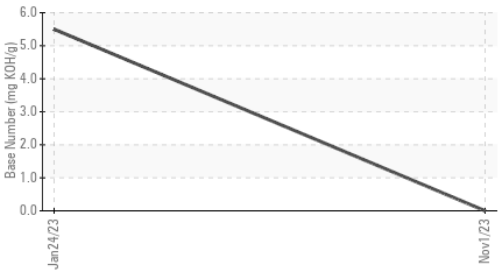
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**15**	5	---
Sodium	ppm	ASTM D5185m		**15**	6	---
Potassium	ppm	ASTM D5185m	>20	**4**	<1	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	**2.1**	1	---
Nitration	Abs/cm	*ASTM D7624	>20	**11.2**	10.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	**24.7**	22.1	---

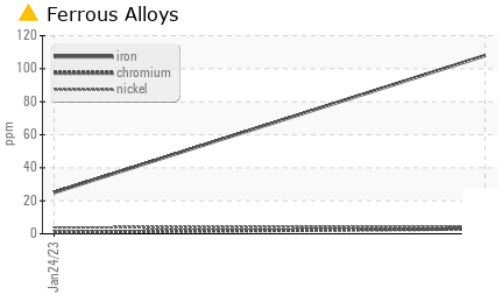
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**21.9**	18.5	---
Base Number (BN)	mg KOH/g	ASTM D2896		▲ **0.0**	5.5	---

OIL ANALYSIS REPORT

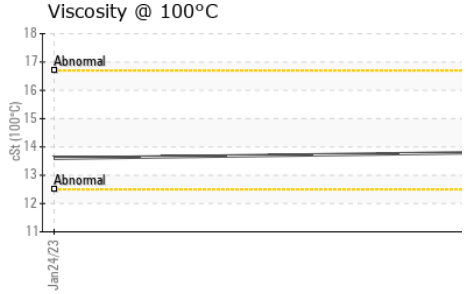
Base Number



Ferrous Alloys



Viscosity @ 100°C

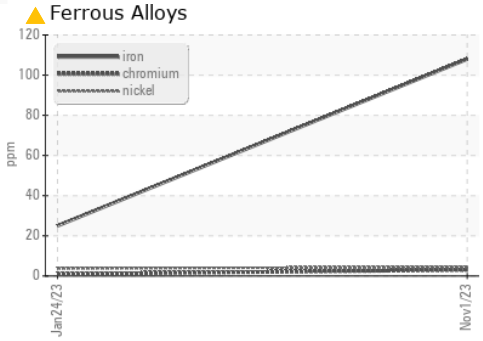


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt	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	---

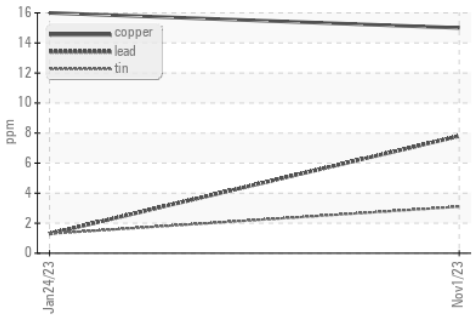
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		**13.8**	13.6	---

GRAPHS

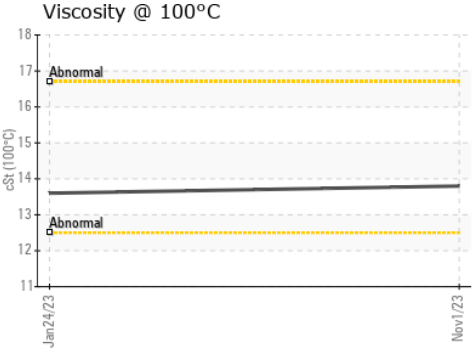
Ferrous Alloys



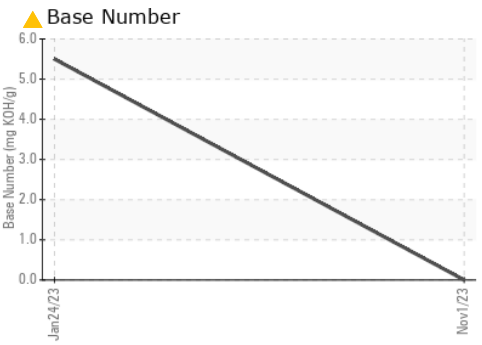
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0092656
Lab Number : 05998820
Unique Number : 10727180
Test Package : FLEET

Received : 06 Nov 2023
Diagnosed : 08 Nov 2023
Diagnostician : Jonathan Hester

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)

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Report Id: GFL005 [WUSCAR] 05998820 (Generated: 11/08/2023 16:34:37) Rev: 1

Submitted By: WALTER SKOKOWSKI