



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**Rear load single stream**  
Component  
**1 Diesel Engine**  
Fluid  
**MOBIL 15W40 (6 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0120439</b>	GFL0120455	GFL0108616
Sample Date		Client Info		<b>13 May 2024</b>	08 May 2024	22 Feb 2024
Machine Age	hrs	Client Info		<b>18103</b>	17650	17650
Oil Age	hrs	Client Info		<b>500</b>	17650	500
Filter Age	hrs	Client Info		<b>500</b>	0	500
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	<b>21</b>	17	2
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	1	0
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	2	<1
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>330	<b>2</b>	2	0
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

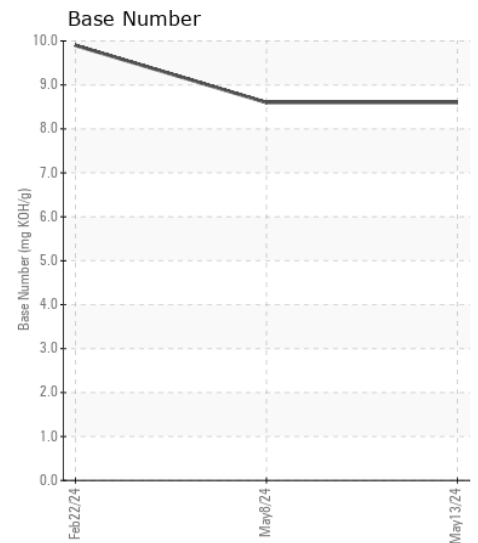
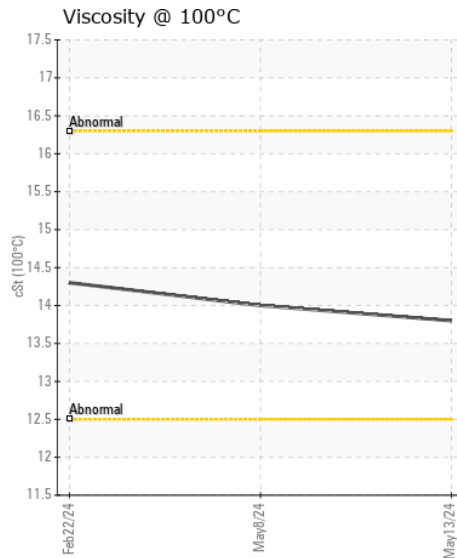
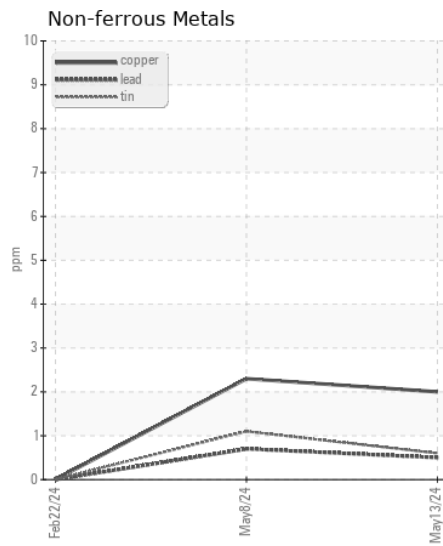
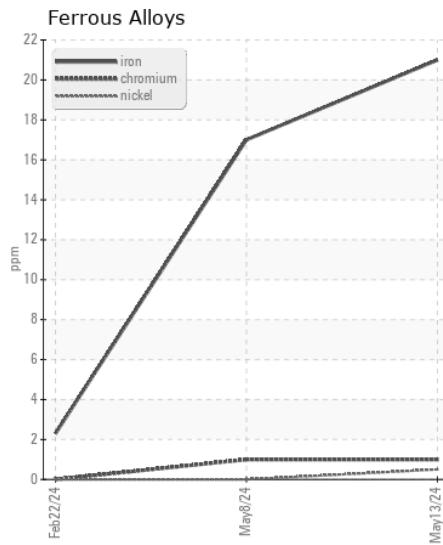
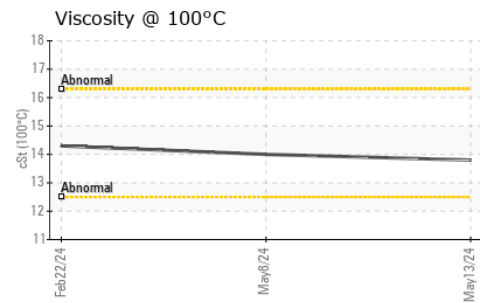
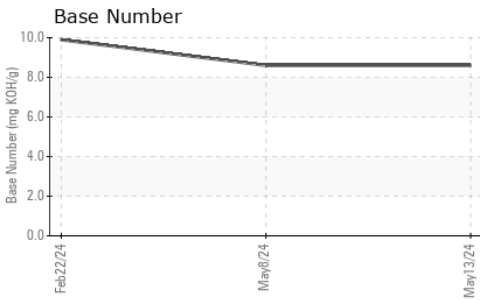
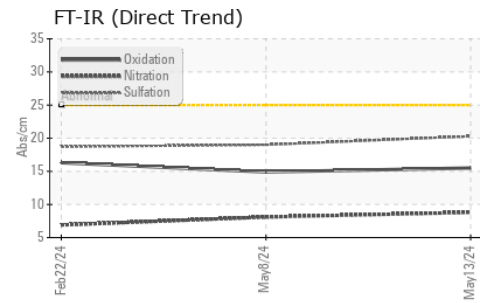
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	5	3
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	0
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>6	<b>1</b>	0.6	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.8</b>	8.1	6.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.3</b>	19.0	18.7
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

**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.

Sodium	ppm	ASTM D5185m	>118	<b>4</b>	3	<1
Boron	ppm	ASTM D5185m		<b>13</b>	10	58
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	1
Molybdenum	ppm	ASTM D5185m		<b>65</b>	62	57
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>995</b>	1034	1059
Calcium	ppm	ASTM D5185m		<b>1137</b>	1188	807
Phosphorus	ppm	ASTM D5185m		<b>1181</b>	1122	1071
Zinc	ppm	ASTM D5185m		<b>1308</b>	1376	1188
Sulfur	ppm	ASTM D5185m		<b>3525</b>	3950	3058
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.5</b>	14.9	16.3
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.6</b>	8.6	9.9
Visc @ 100°C	cSt	ASTM D445		<b>13.8</b>	14.0	14.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0120439  
**Lab Number** : 06196348  
**Unique Number** : 11058471  
**Test Package** : FLEET

**Received** : 31 May 2024  
**Tested** : 03 Jun 2024  
**Diagnosed** : 03 Jun 2024 - Don Baldrige

**GFL Environmental - 904B - Menomonic**  
 1706 MIDWAY RD  
 MENOMONIE, WI  
 US 54751  
 Contact: ANDY KANE

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: (715)202-3420

F: