FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
721054
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

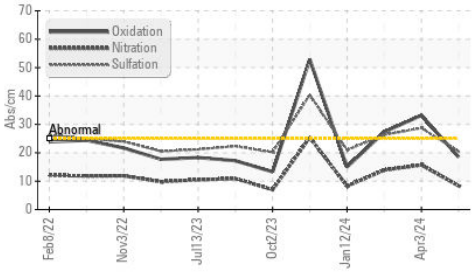
There is no indication of any contamination in the oil.

FLUID CONDITION

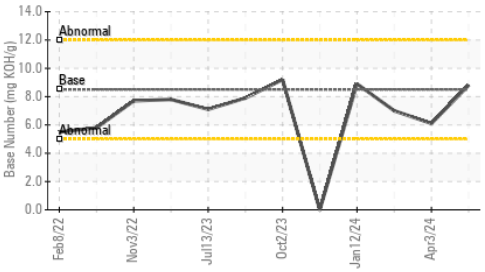
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0111878	GFL0116583	GFL0111861
Sample Date		Client Info		16 Apr 2024	03 Apr 2024	07 Mar 2024
Machine Age	hrs	Client Info		7941	7941	7861
Oil Age	hrs	Client Info		7941	1610	1776
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	58	▲ 190	▲ 183
Chromium	ppm	ASTM D5185m	>20	4	8	8
Nickel	ppm	ASTM D5185m	>4	2	3	3
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	8	▲ 25	▲ 24
Lead	ppm	ASTM D5185m	>40	1	0	<1
Copper	ppm	ASTM D5185m	>330	2	4	4
Tin	ppm	ASTM D5185m	>15	1	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	10	10	11
Potassium	ppm	ASTM D5185m	>20	10	6	10
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.5	2.5	2.4
Nitration	Abs/cm	*ASTM D7624	>20	8.4	15.7	13.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	28.7	26.3
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>216	2	6	7
Boron	ppm	ASTM D5185m	250	13	4	5
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	58	53	58
Manganese	ppm	ASTM D5185m		2	2	2
Magnesium	ppm	ASTM D5185m	450	816	901	877
Calcium	ppm	ASTM D5185m	3000	1062	1060	1058
Phosphorus	ppm	ASTM D5185m	1150	951	874	948
Zinc	ppm	ASTM D5185m	1350	1098	1191	1142
Sulfur	ppm	ASTM D5185m	4250	3011	3166	2781
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5	33.2	27.3
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.8	6.1	7.0
Visc @ 100°C	cSt	ASTM D445	14.4	14.3	14.6	14.2

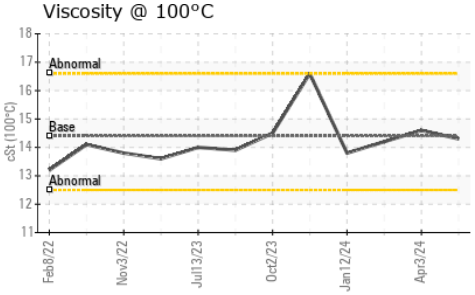
FT-IR (Direct Trend)



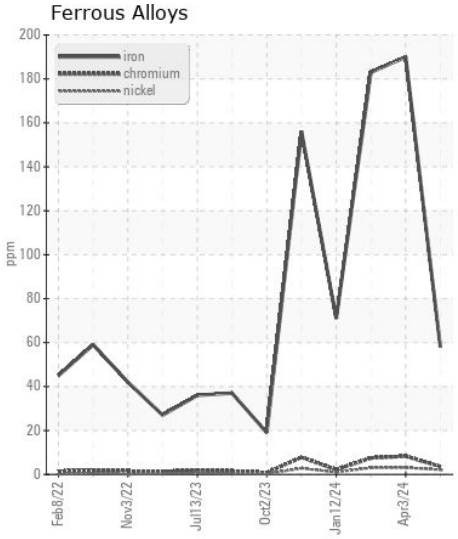
Base Number



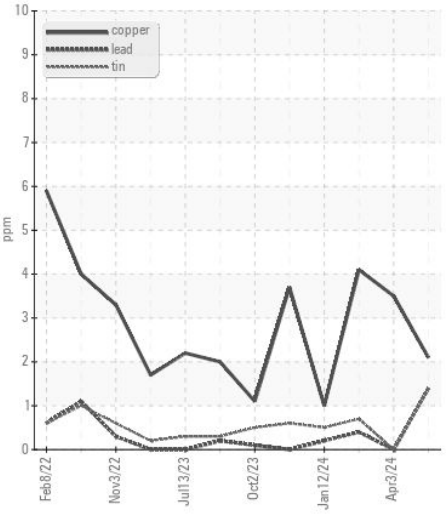
Viscosity @ 100°C



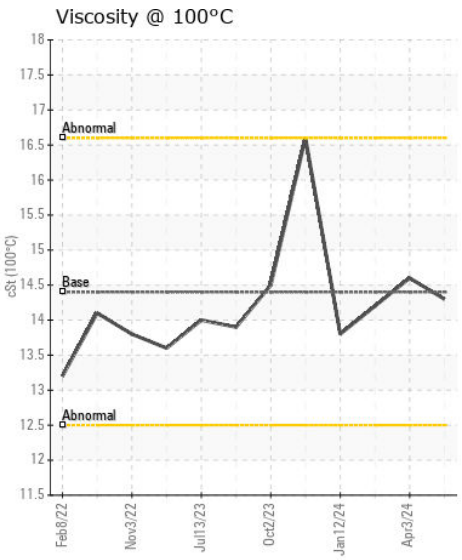
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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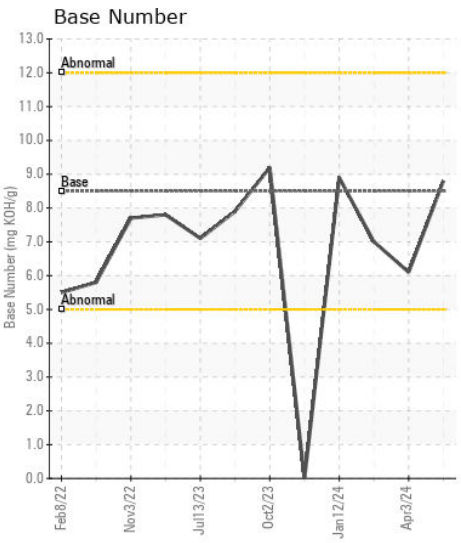

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0111878
Lab Number : 06152841
Unique Number : 10982919
Test Package : FLEET

Received : 18 Apr 2024
Tested : 19 Apr 2024
Diagnosed : 19 Apr 2024 - Wes Davis

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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