FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
225021-825
Component
Diesel Engine
Fluid
CHEVRON DELO 400 XLE 15W40 (6 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

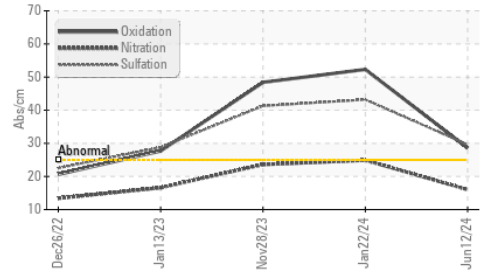
There is no indication of any contamination in the oil.

FLUID CONDITION

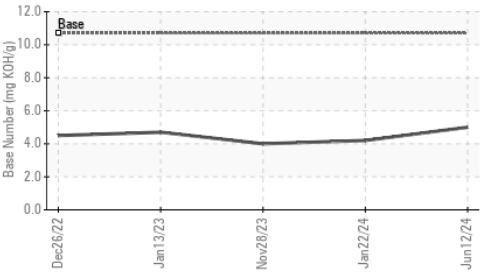
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0104694	GFL0096288	GFL0096314
Sample Date		Client Info		12 Jun 2024	22 Jan 2024	28 Nov 2023
Machine Age	mls	Client Info		165958	160884	0
Oil Age	mls	Client Info		160884	137468	0
Filter Age	mls	Client Info		160884	137468	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	47	104	87
Chromium	ppm	ASTM D5185m	>20	1	3	2
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		11	11	12
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	8	16	13
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	12	22	24
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	8	13	14
Potassium	ppm	ASTM D5185m	>20	5	2	4
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	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	16.0	24.9	23.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.6	43.2	41.3
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		6	8	6
Boron	ppm	ASTM D5185m		42	43	35
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		52	75	80
Manganese	ppm	ASTM D5185m		1	2	<1
Magnesium	ppm	ASTM D5185m		664	735	659
Calcium	ppm	ASTM D5185m		1458	1691	1529
Phosphorus	ppm	ASTM D5185m	760	735	745	696
Zinc	ppm	ASTM D5185m	830	844	921	873
Sulfur	ppm	ASTM D5185m	2770	3381	3130	3089
Oxidation	Abs/.1mm	*ASTM D7414	>25	28.6	52.3	48.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	5.0	4.2	4.0
Visc @ 100°C	cSt	ASTM D445	14.9	15.6	▲ 22.3	▲ 20.77

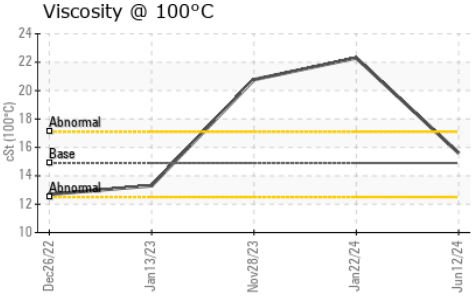
FT-IR (Direct Trend)



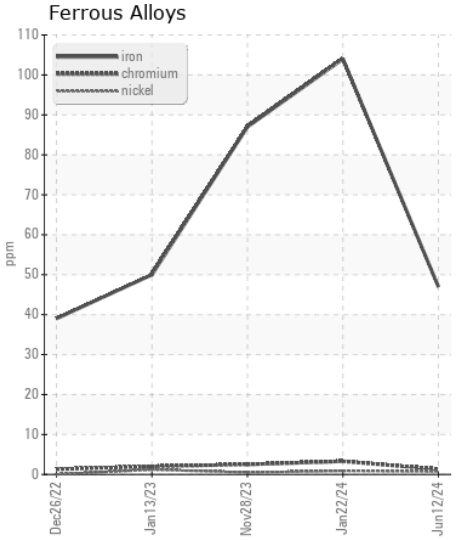
Base Number



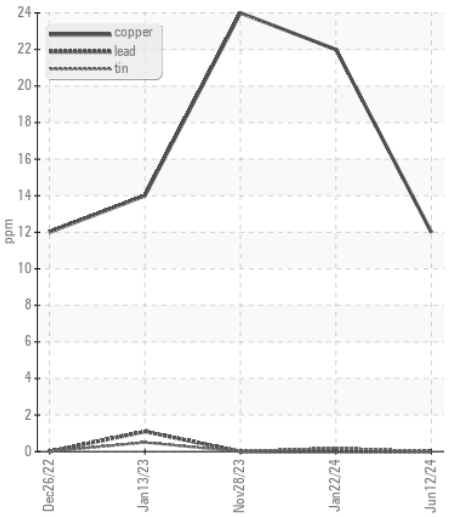
Viscosity @ 100°C



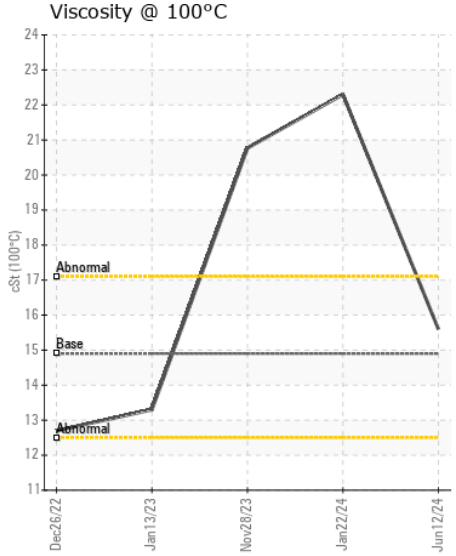
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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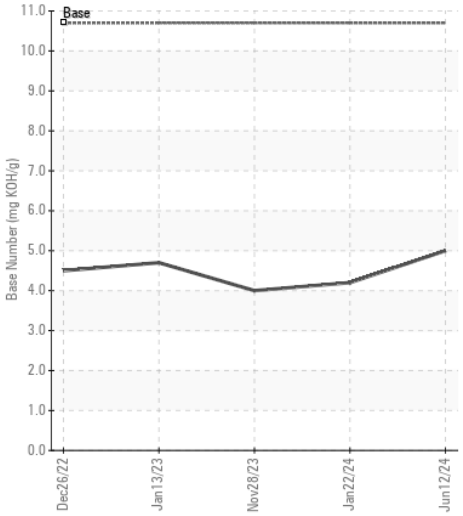

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0104694
Lab Number : 06212867
Unique Number : 11085731
Test Package : FLEET

Received : 17 Jun 2024
Tested : 19 Jun 2024
Diagnosed : 19 Jun 2024 - Angela Borella

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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