



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
913088
Component
Diesel Engine
Fluid
CHEVRON DELO 400 XLE 15W40 (9 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0104692	GFL0104663	GFL0096322
Sample Date		Client Info		12 Jun 2024	08 Mar 2024	18 Dec 2023
Machine Age	hrs	Client Info		3644	3030	2539
Oil Age	hrs	Client Info		662	501	0
Filter Age	hrs	Client Info		662	501	0
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>120	37	8	13
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>5	9	6	4
Titanium	ppm	ASTM D5185m	>2	11	11	5
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	2
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	2	<1	1
Tin	ppm	ASTM D5185m	>15	1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

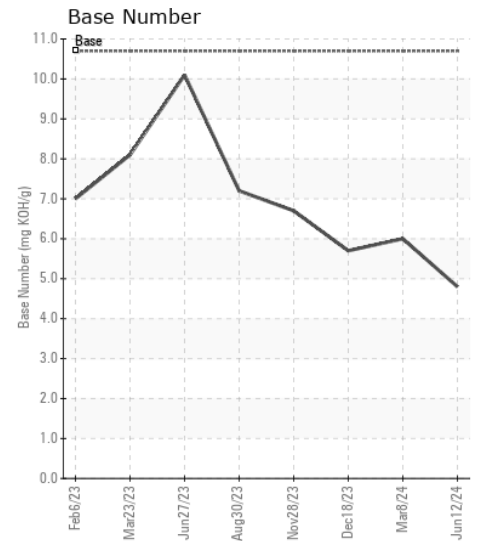
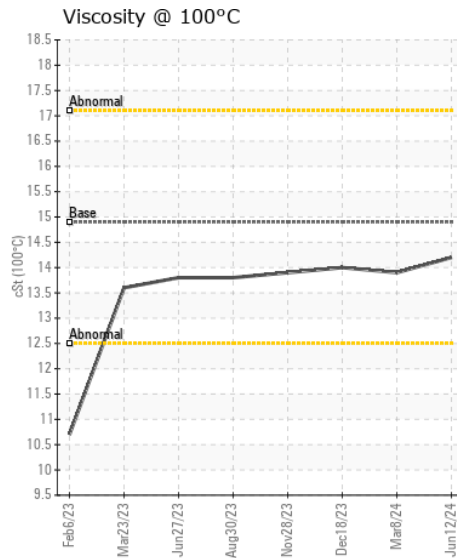
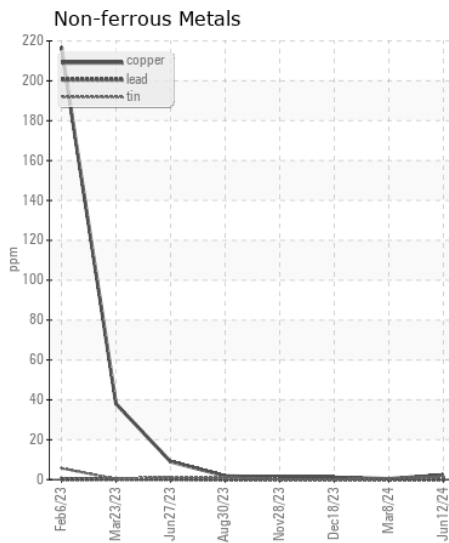
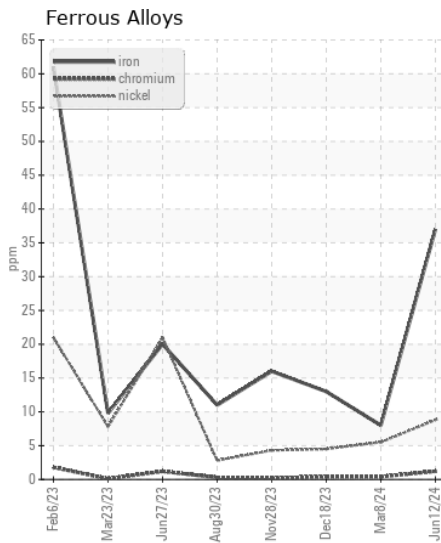
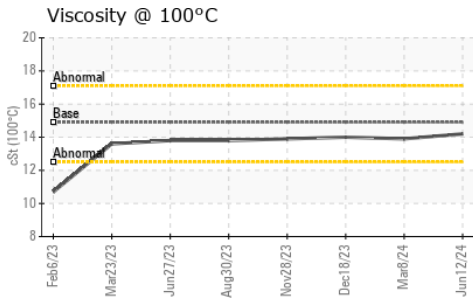
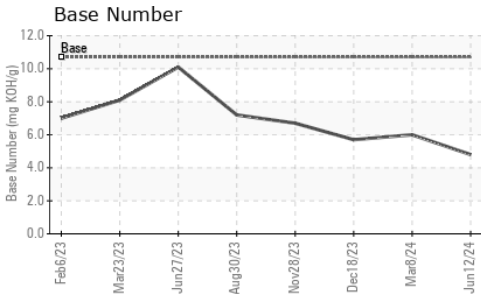
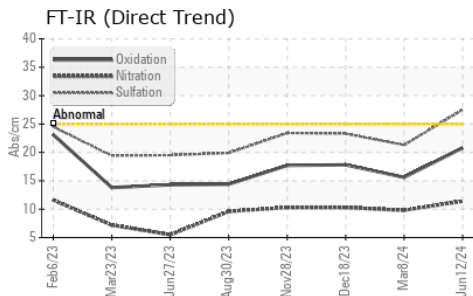
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	7	5	6
Potassium	ppm	ASTM D5185m	>20	4	1	<1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>4	1.6	0.8	0.9
Nitration	Abs/cm	*ASTM D7624	>20	11.4	9.8	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.5	21.3	23.3
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

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		8	3	4
Boron	ppm	ASTM D5185m		31	80	109
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		49	49	79
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m		705	682	657
Calcium	ppm	ASTM D5185m		1584	1504	1546
Phosphorus	ppm	ASTM D5185m	760	752	679	610
Zinc	ppm	ASTM D5185m	830	879	808	821
Sulfur	ppm	ASTM D5185m	2770	3349	3226	2440
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.8	15.6	17.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	4.8	6.0	5.7
Visc @ 100°C	cSt	ASTM D445	14.9	14.2	13.9	14.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0104692
Lab Number : 06212775
Unique Number : 11085639
Test Package : FLEET

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 10164 M-32
 Elmira, MI
 US 49730
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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)