



WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
840821
 Component
Diesel Engine
 Fluid
CHEVRON DELO 400 XLE 15W40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0882070	WC0882092	WC0831744
Sample Date		Client Info		04 Apr 2024	28 Dec 2023	24 Nov 2023
Machine Age	hrs	Client Info		6432	5948	5804
Oil Age	hrs	Client Info		484	144	517
Filter Age	hrs	Client Info		484	144	517
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	16	6	21
Chromium	ppm	ASTM D5185m	>20	1	0	<1
Nickel	ppm	ASTM D5185m	>4	1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	1
Lead	ppm	ASTM D5185m	>40	1	<1	0
Copper	ppm	ASTM D5185m	>330	2	<1	1
Tin	ppm	ASTM D5185m	>15	1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

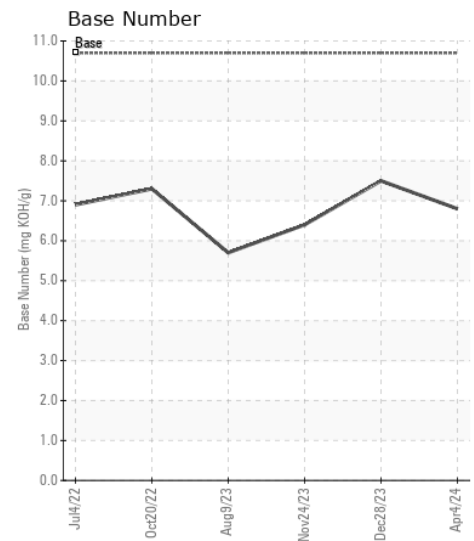
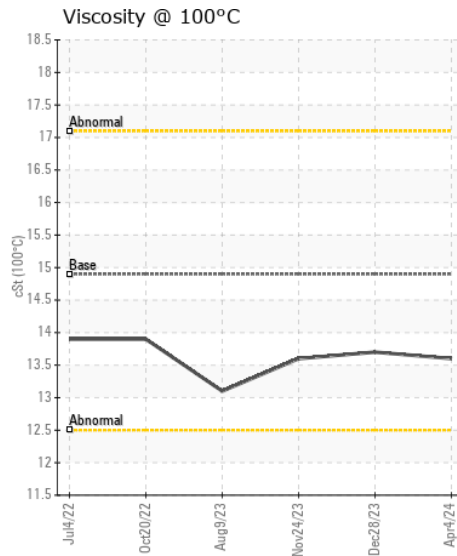
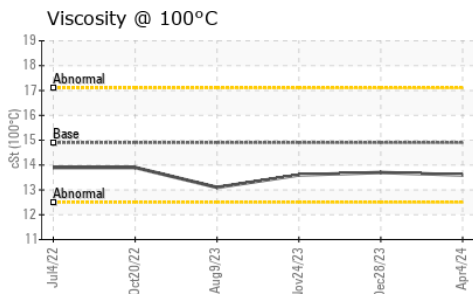
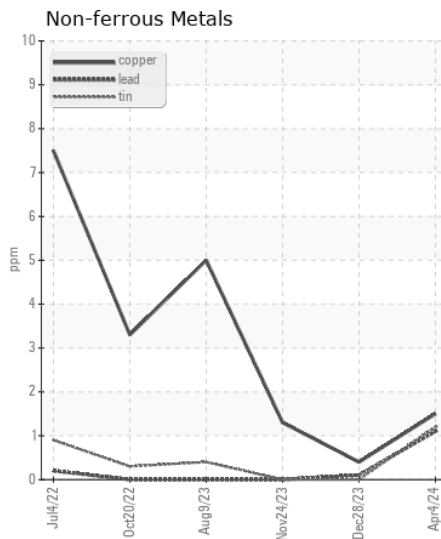
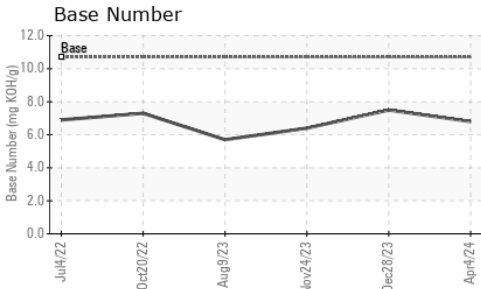
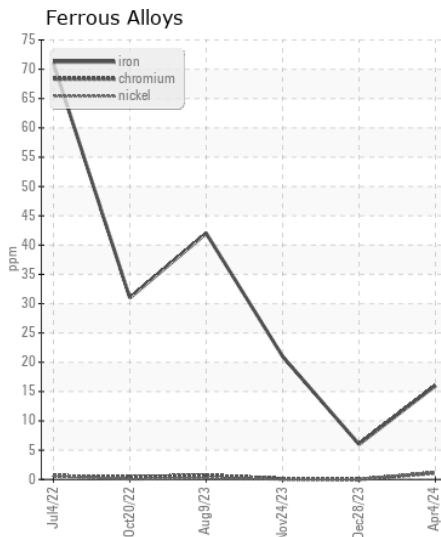
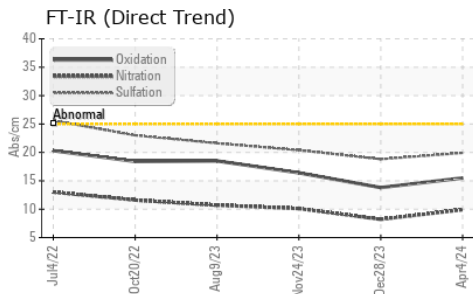
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	13	9	20
Potassium	ppm	ASTM D5185m	>20	4	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	0.5	0.2	0.5
Nitration	Abs/cm	*ASTM D7624	>20	9.9	8.2	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	18.8	20.4
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		3	1	<1
Boron	ppm	ASTM D5185m		114	108	81
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		11	12	10
Manganese	ppm	ASTM D5185m		1	0	0
Magnesium	ppm	ASTM D5185m		677	740	603
Calcium	ppm	ASTM D5185m		1376	1409	1294
Phosphorus	ppm	ASTM D5185m	760	778	732	597
Zinc	ppm	ASTM D5185m	830	848	864	746
Sulfur	ppm	ASTM D5185m	2770	3588	3152	3116
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	13.8	16.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	6.8	7.5	6.4
Visc @ 100°C	cSt	ASTM D445	14.9	13.6	13.7	13.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0882070
Lab Number : 06152524
Unique Number : 10982602
Test Package : FLEET

Received : 17 Apr 2024
Tested : 18 Apr 2024
Diagnosed : 22 Apr 2024 - Don Baldrige

LTI/MILKY WAY - SEATTLE
 6110 WEST MARGINAL WAY SW
 SEATTLE, WA
 US 98106

Contact: TIM TURNBULL
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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)

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