



WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
13012
Component
Diesel Engine
Fluid
CHEVRON DELO 400 XLE 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0833152	WC0833186	---
Sample Date		Client Info		14 Nov 2023	21 Aug 2023	---
Machine Age	mls	Client Info		55812	16629	---
Oil Age	mls	Client Info		40000	16629	---
Filter Age	mls	Client Info		40000	16629	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	32	37	---
Chromium	ppm	ASTM D5185m	>20	<1	2	---
Nickel	ppm	ASTM D5185m	>4	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	15	14	---
Lead	ppm	ASTM D5185m	>40	<1	0	---
Copper	ppm	ASTM D5185m	>330	2	6	---
Tin	ppm	ASTM D5185m	>15	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

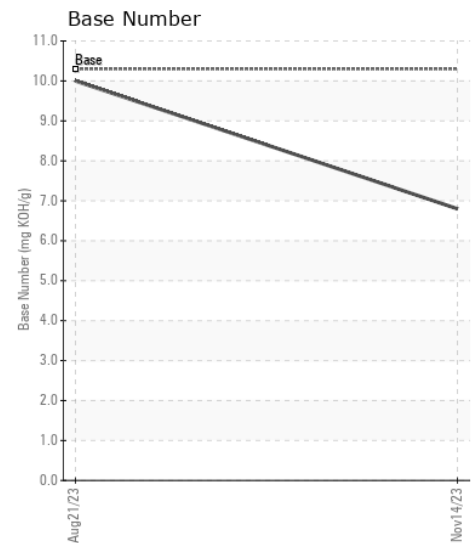
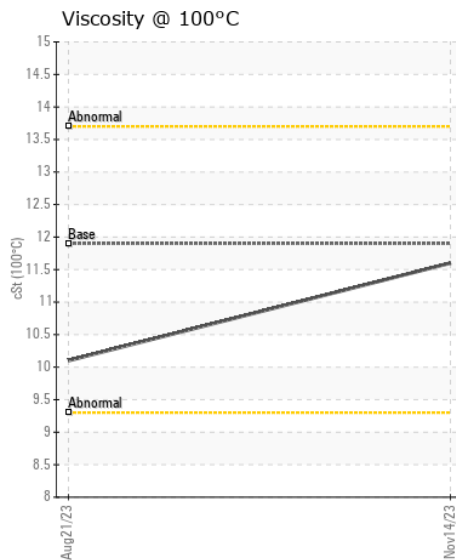
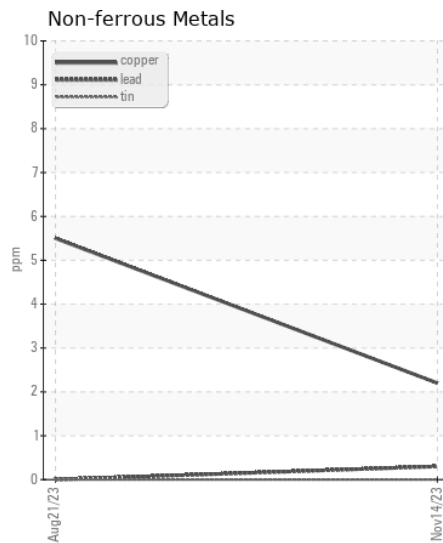
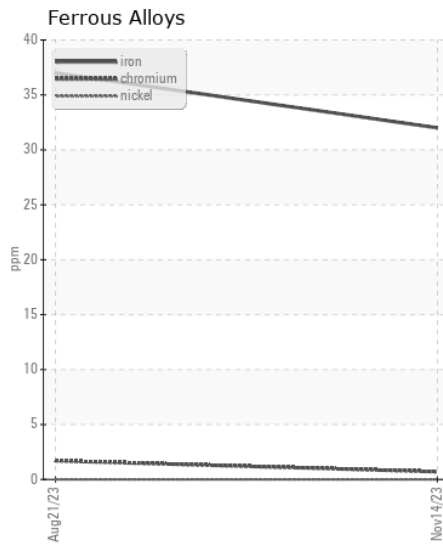
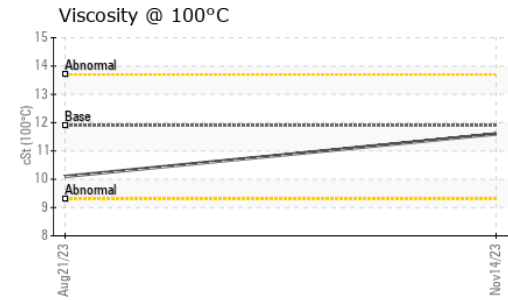
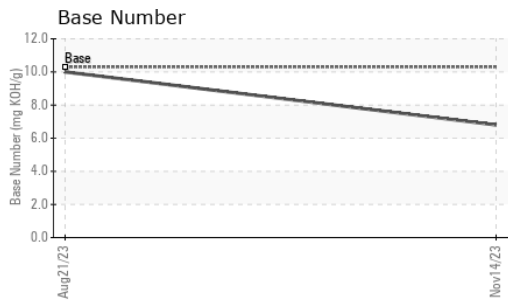
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	17	---
Potassium	ppm	ASTM D5185m	>20	47	47	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.9	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	9.8	8.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	21.3	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	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	7	---
Boron	ppm	ASTM D5185m		22	49	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		7	38	---
Manganese	ppm	ASTM D5185m		<1	2	---
Magnesium	ppm	ASTM D5185m		723	562	---
Calcium	ppm	ASTM D5185m	2900	1327	1689	---
Phosphorus	ppm	ASTM D5185m	1100	674	719	---
Zinc	ppm	ASTM D5185m	1200	846	876	---
Sulfur	ppm	ASTM D5185m	4000	2705	2732	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	18.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	6.8	10.0	---
Visc @ 100°C	cSt	ASTM D445	11.9	11.6	10.1	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0833152 **Received** : 11 Jan 2024
Lab Number : 06057683 **Diagnosed** : 12 Jan 2024
Unique Number : 10823632 **Diagnostician** : Sean Felton
Test Package : FLEET

LTI/MILKY WAY - MOSES
 120 WISER LANE
 MOSES LAKE, WA
 US 98837

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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)