



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
3117
Component
Diesel Engine
Fluid
CHEVRON DELO 400 XLE 10W30 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0863246	WC0863263	WC0663164
Sample Date		Client Info		30 Jan 2024	05 Jan 2024	06 Oct 2023
Machine Age	mls	Client Info		376973	368845	340056
Oil Age	mls	Client Info		50627	42167	13710
Filter Age	mls	Client Info		50627	42167	13710
Oil Changed		Client Info		Changed	N/A	Not Changd
Filter Changed		Client Info		Changed	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	21	19	8
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	2
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	7	5	3
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	2	3	5
Tin	ppm	ASTM D5185m	>15	1	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

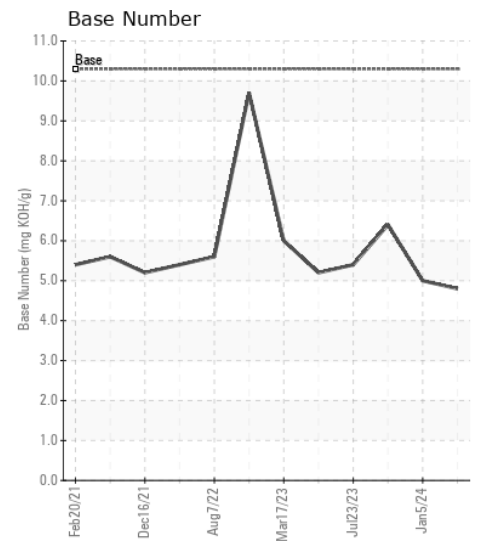
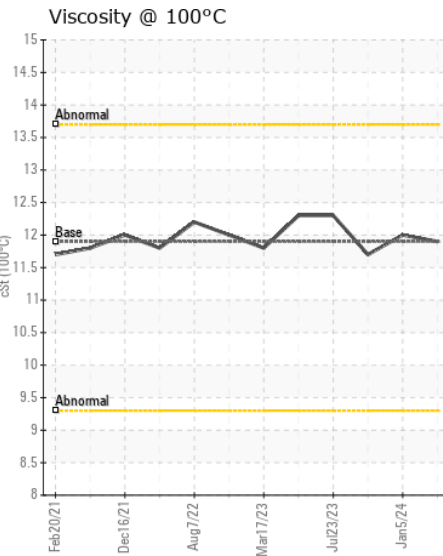
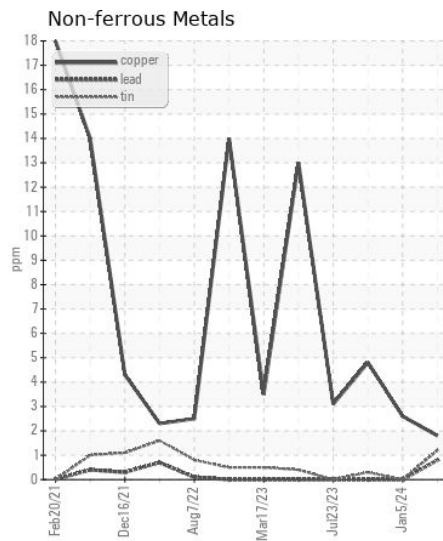
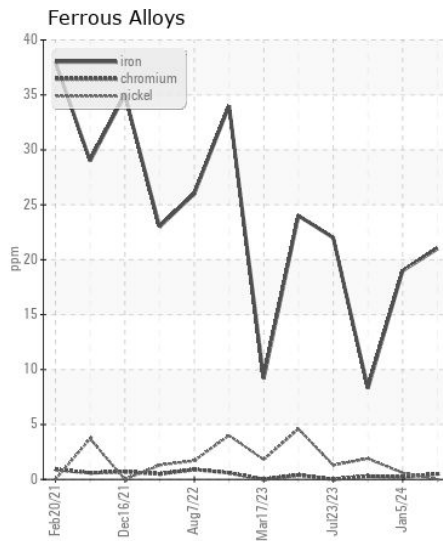
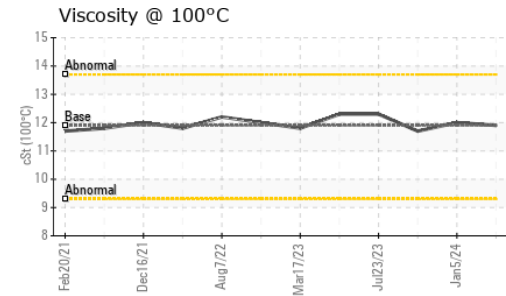
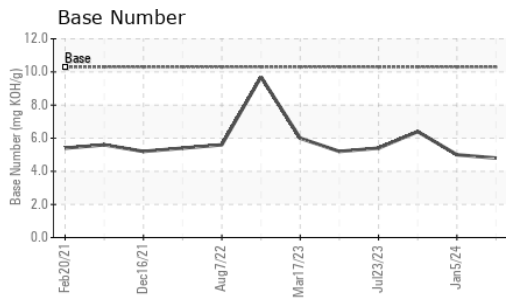
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	9	9	7
Potassium	ppm	ASTM D5185m	>20	12	7	7
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	0.6	0.5	0.2
Nitration	Abs/cm	*ASTM D7624	>20	10.5	10.3	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.6	25.1	19.3
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		40	35	14
Boron	ppm	ASTM D5185m		24	23	46
Barium	ppm	ASTM D5185m		0	0	11
Molybdenum	ppm	ASTM D5185m		14	10	8
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		761	814	748
Calcium	ppm	ASTM D5185m	2900	1354	1480	1331
Phosphorus	ppm	ASTM D5185m	1100	739	744	688
Zinc	ppm	ASTM D5185m	1200	822	858	818
Sulfur	ppm	ASTM D5185m	4000	2811	2982	2844
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.6	19.7	14.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	4.8	5.0	6.4
Visc @ 100°C	cSt	ASTM D445	11.9	11.9	12.0	11.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0863246 **Received** : 01 Feb 2024
Lab Number : 06077417 **Diagnosed** : 02 Feb 2024
Unique Number : 10859508 **Diagnostician** : Wes Davis
Test Package : FLEET

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)

LTI/MILKY WAY - SUNNYSIDE
 333 MIDVALE RD
 SUNNYSIDE, WA
 US 98944

Contact: JERRY CRISP
 jcrisp@ltii.lynden.com
 T: (509)839-5844
 F: (509)839-6556