



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
3973
 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		WC0663223	WC0863251	WC0663231
Sample Date		Client Info		03 Feb 2024	18 Dec 2023	19 Sep 2023
Machine Age	mls	Client Info		684829	669499	641658
Oil Age	mls	Client Info		25330	615920	25738
Filter Age	mls	Client Info		25330	53579	25738
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	8	25	13
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	4	1
Lead	ppm	ASTM D5185m	>40	<1	<1	2
Copper	ppm	ASTM D5185m	>330	6	21	3
Tin	ppm	ASTM D5185m	>15	1	2	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

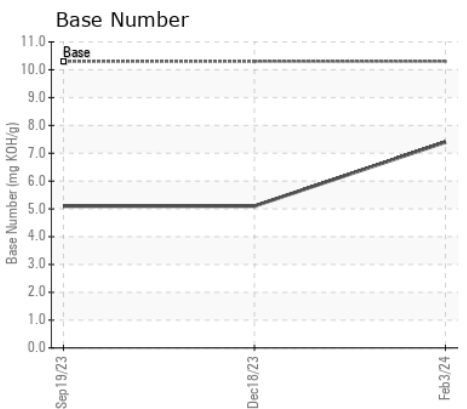
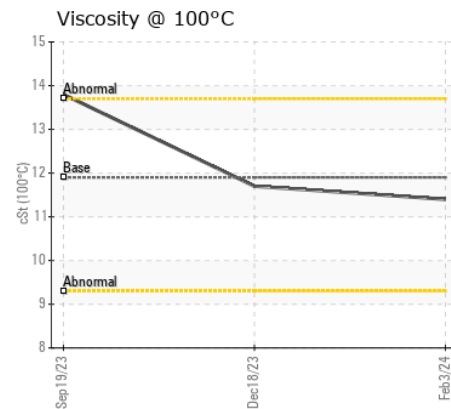
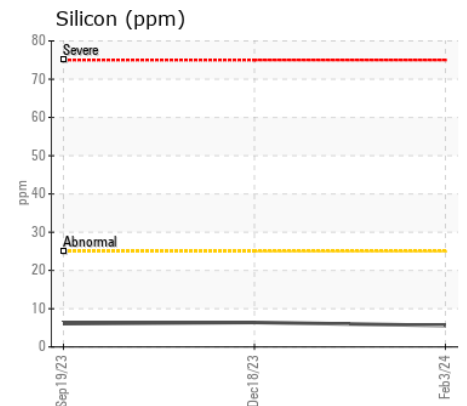
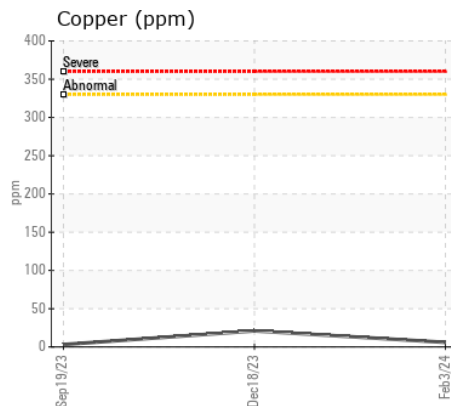
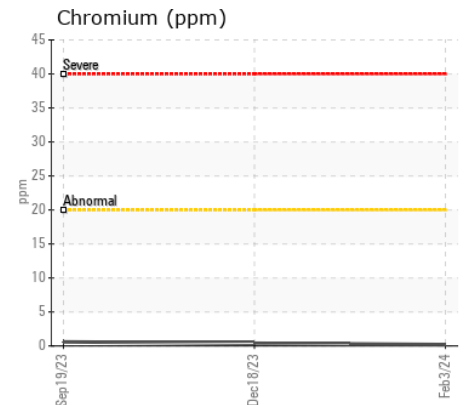
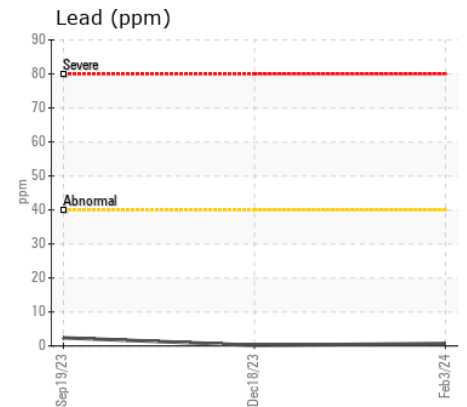
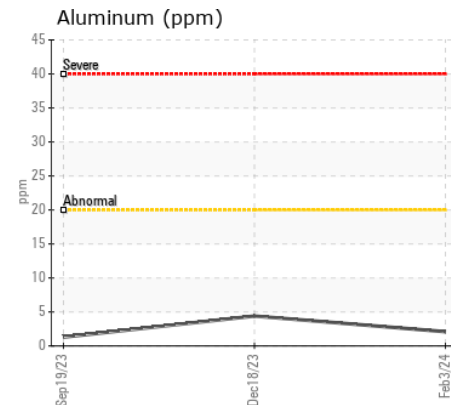
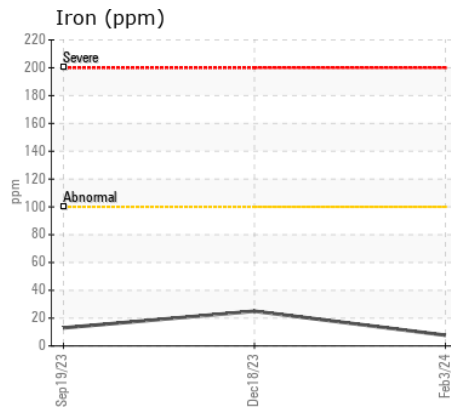
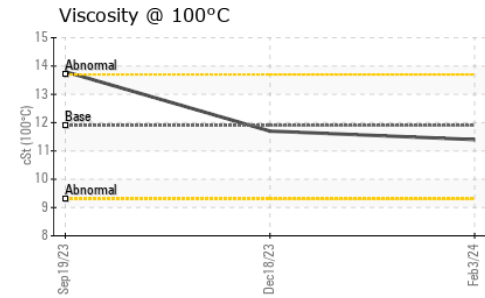
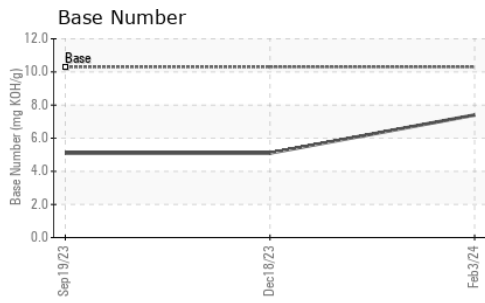
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	6	6
Potassium	ppm	ASTM D5185m	>20	7	3	3
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	0.2	0.7	0.5
Nitration	Abs/cm	*ASTM D7624	>20	8.8	10.8	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	25.1	22.8
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		0	2	5
Boron	ppm	ASTM D5185m		62	17	<1
Barium	ppm	ASTM D5185m		13	0	0
Molybdenum	ppm	ASTM D5185m		10	5	67
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		727	820	1065
Calcium	ppm	ASTM D5185m	2900	1328	1463	1137
Phosphorus	ppm	ASTM D5185m	1100	738	768	1109
Zinc	ppm	ASTM D5185m	1200	834	893	1343
Sulfur	ppm	ASTM D5185m	4000	3423	3060	3195
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	20.7	18.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	7.4	5.1	5.1
Visc @ 100°C	cSt	ASTM D445	11.9	11.4	11.7	▲ 13.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0663223 **Received** : 12 Feb 2024
Lab Number : 06086565 **Tested** : 13 Feb 2024
Unique Number : 10874010 **Diagnosed** : 13 Feb 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

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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)