



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
72230
Component
Diesel Engine
Fluid
CHEVRON DELO 400 XLE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0528536	WC0920968	WC0681107
Sample Date		Client Info		19 Jun 2024	30 Apr 2024	01 Mar 2024
Machine Age	hrs	Client Info		4221	3347	2229
Oil Age	hrs	Client Info		874	1118	499
Filter Age	hrs	Client Info		874	1118	499
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	48	39	50
Chromium	ppm	ASTM D5185m	>20	4	4	2
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		18	19	17
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	18	25	8
Lead	ppm	ASTM D5185m	>40	5	<1	0
Copper	ppm	ASTM D5185m	>330	15	19	33
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

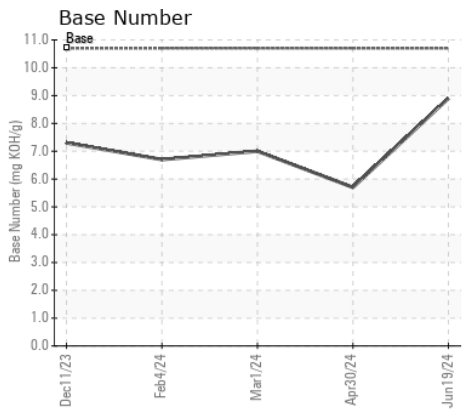
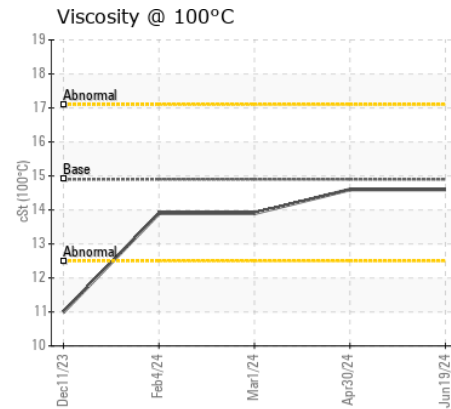
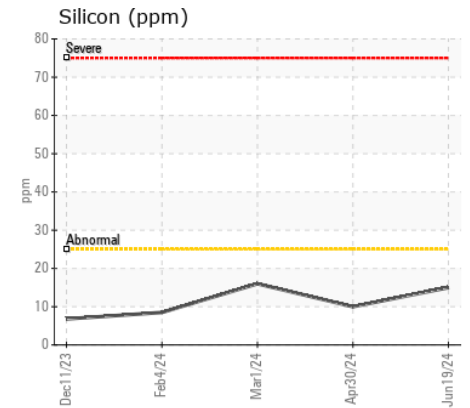
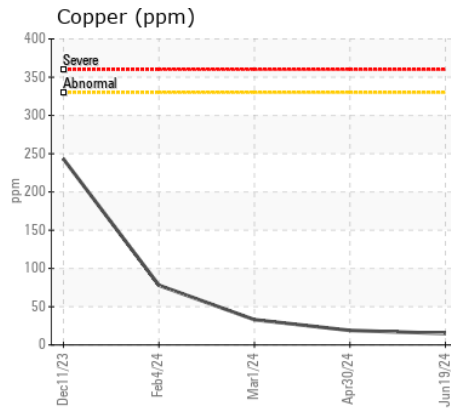
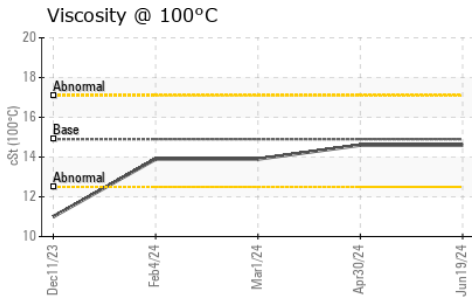
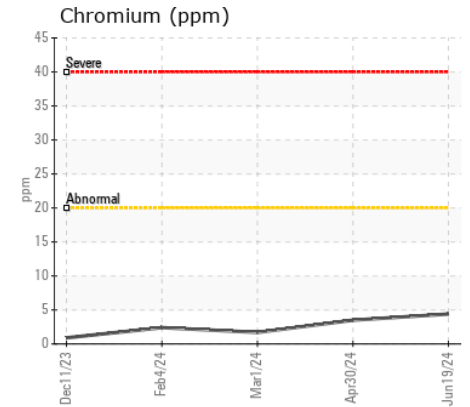
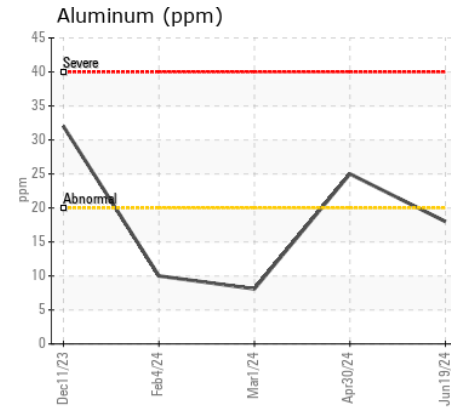
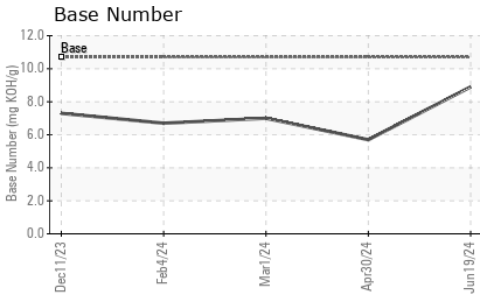
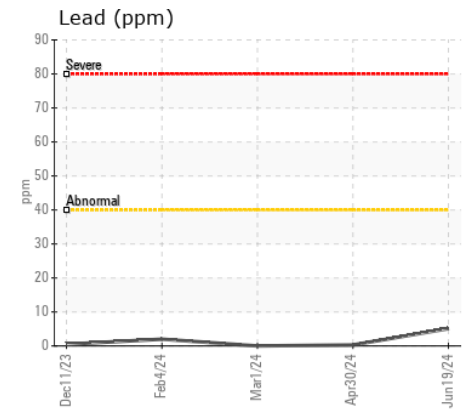
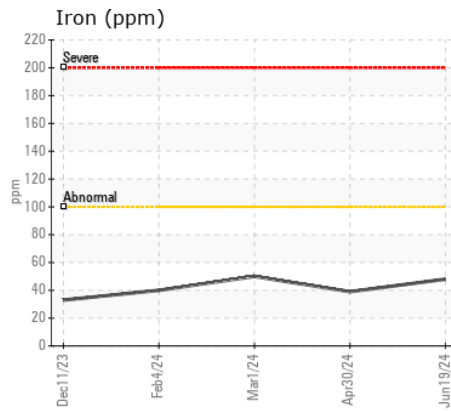
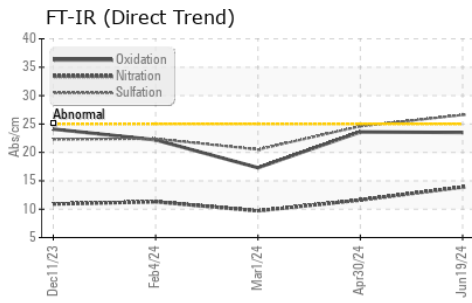
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	15	10	16
Potassium	ppm	ASTM D5185m	>20	34	52	9
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	0.4	0.2
Nitration	Abs/cm	*ASTM D7624	>20	13.9	11.6	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.6	24.6	20.5
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		21	3	3
Boron	ppm	ASTM D5185m		35	40	49
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		35	36	30
Manganese	ppm	ASTM D5185m		1	2	1
Magnesium	ppm	ASTM D5185m		806	854	738
Calcium	ppm	ASTM D5185m		1786	1787	1609
Phosphorus	ppm	ASTM D5185m	760	839	820	717
Zinc	ppm	ASTM D5185m	830	1000	952	804
Sulfur	ppm	ASTM D5185m	2770	3079	3347	3817
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.5	23.6	17.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	8.9	5.7	7.0
Visc @ 100°C	cSt	ASTM D445	14.9	14.6	14.6	13.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0528536
Lab Number : 06238712
Unique Number : 11127546
Test Package : MOB1+

Received : 16 Jul 2024
Tested : 17 Jul 2024
Diagnosed : 18 Jul 2024 - Sean Felton

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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)