



Machine Id
WMC
Component
Port Main 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		MW06048290	MW06017156	MW05981741
Sample Date		Client Info		01 Jan 2024	23 Nov 2023	16 Oct 2023
Machine Age	hrs	Client Info		19850	19062	19062
Oil Age	hrs	Client Info		788	537	802
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	6	2	4
Chromium	ppm	ASTM D5185m	>8	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m	>3	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	1	3	3
Lead	ppm	ASTM D5185m	>18	2	<1	<1
Copper	ppm	ASTM D5185m	>80	<1	0	<1
Tin	ppm	ASTM D5185m	>14	<1	<1	<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

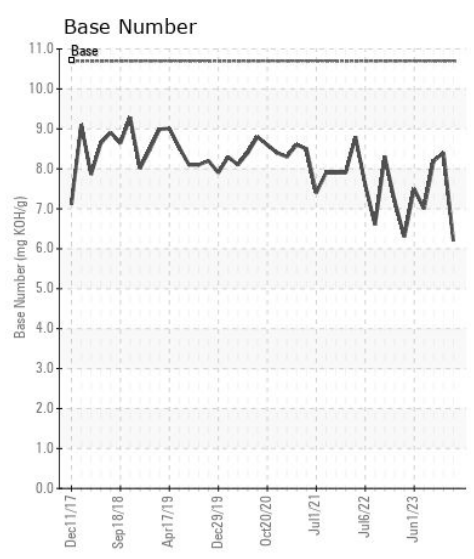
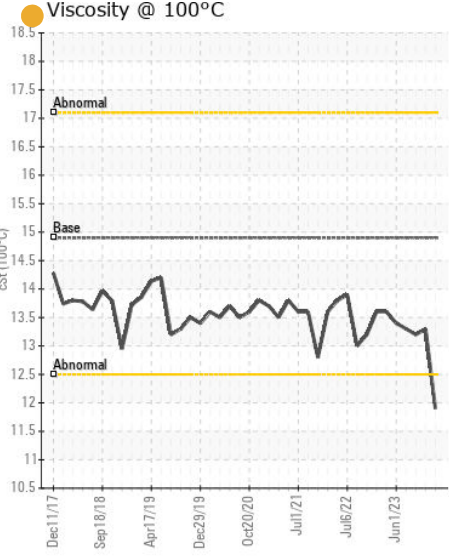
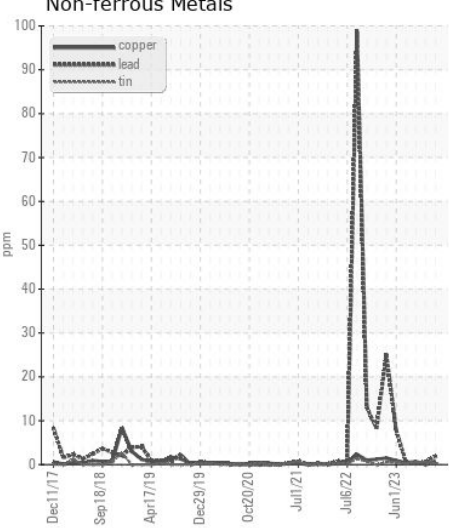
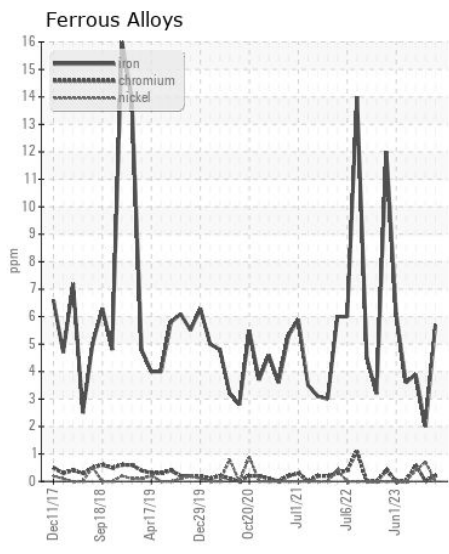
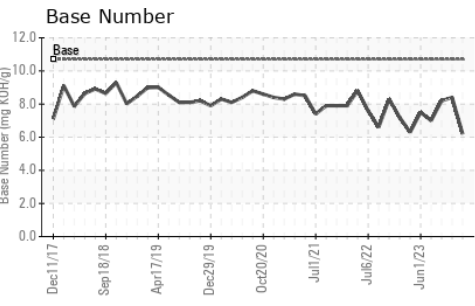
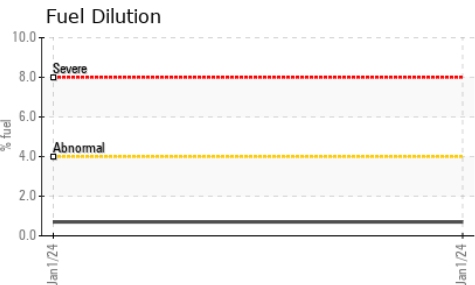
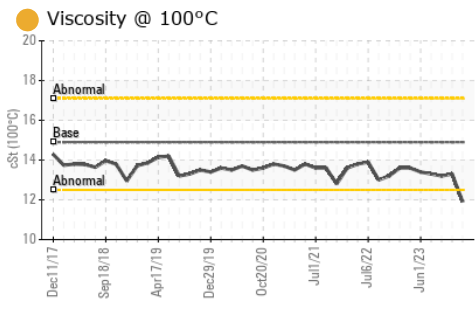
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	4	5	4
Potassium	ppm	ASTM D5185m	>20	<1	2	2
Fuel	%	ASTM D3524	>4.0	0.7	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.2	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.1	7.0	6.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	23.1	22.4
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	>0.1	NEG	NEG	NEG

FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m	>75	3	4	1
Boron	ppm	ASTM D5185m		108	319	389
Barium	ppm	ASTM D5185m		0	0	10
Molybdenum	ppm	ASTM D5185m		38	110	120
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		182	583	550
Calcium	ppm	ASTM D5185m		2152	1446	1395
Phosphorus	ppm	ASTM D5185m	760	774	773	728
Zinc	ppm	ASTM D5185m	830	1120	870	877
Sulfur	ppm	ASTM D5185m	2770	3263	2533	2589
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	17.3	16.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	6.2	8.4	8.2
Visc @ 100°C	cSt	ASTM D445	14.9	11.9	13.3	13.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW06048290 **Received** : 29 Dec 2023
Lab Number : 06048290 **Tested** : 03 Jan 2024
Unique Number : 10808898 **Diagnosed** : 03 Jan 2024 - Don Baldrige
Test Package : MAR 2 (Additional Tests: FuelDilution, PercentFuel)

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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)