



Machine Id  
**EIC**  
Component  
**Port Main Engine**  
Fluid  
**CHEVRON DELO 400 XLE 15W40 (--- GAL)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW06028303</b>	MW05981754	MW05981750
Sample Date		Client Info		<b>06 Dec 2023</b>	16 Oct 2023	16 Oct 2023
Machine Age	hrs	Client Info		<b>23505</b>	22594	22405
Oil Age	hrs	Client Info		<b>951</b>	618	429
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ATTENTION</b>	ABNORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	<b>9</b>	7	5
Chromium	ppm	ASTM D5185m	>8	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>15	<b>2</b>	3	2
Lead	ppm	ASTM D5185m	>18	<b>11</b>	11	9
Copper	ppm	ASTM D5185m	>80	<b>4</b>	2	2
Tin	ppm	ASTM D5185m	>14	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

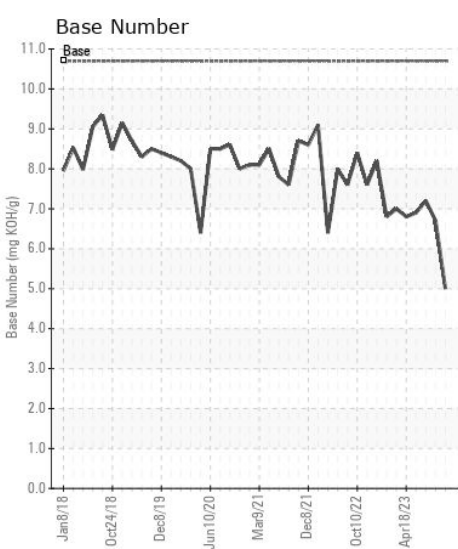
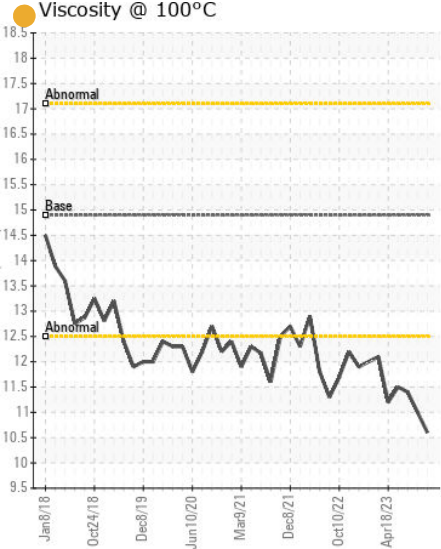
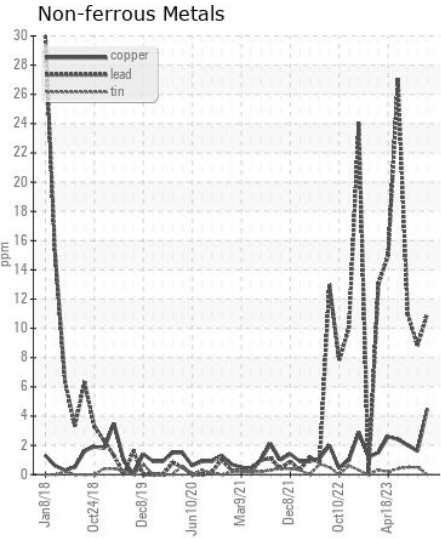
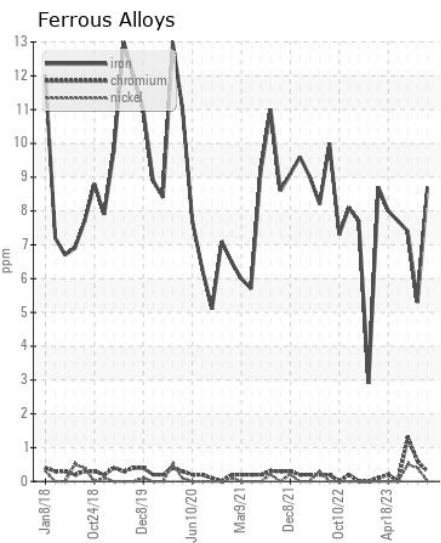
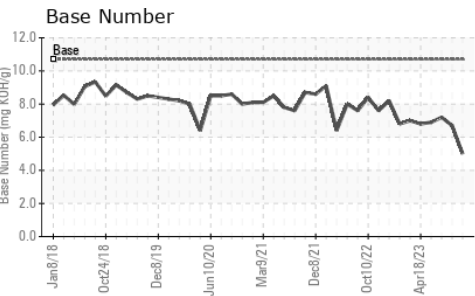
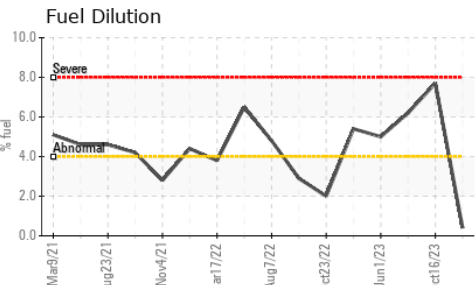
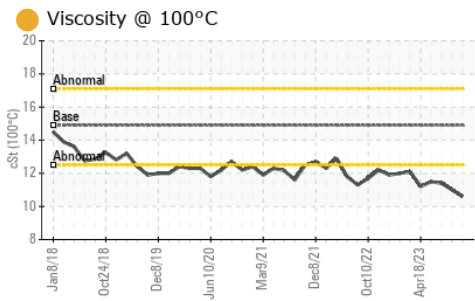
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>4</b>	5	5
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	2
Fuel	%	ASTM D3524	>4.0	<b>0.4</b>	▲ 7.7	▲ 6.2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.2</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.5</b>	6.7	6.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.3</b>	22.8	21.8
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	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	<b>0</b>	<1	0
Boron	ppm	ASTM D5185m		<b>171</b>	441	400
Barium	ppm	ASTM D5185m		<b>5</b>	10	10
Molybdenum	ppm	ASTM D5185m		<b>47</b>	102	90
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>215</b>	463	400
Calcium	ppm	ASTM D5185m		<b>1959</b>	1598	1399
Phosphorus	ppm	ASTM D5185m	760	<b>846</b>	945	831
Zinc	ppm	ASTM D5185m	830	<b>997</b>	1136	982
Sulfur	ppm	ASTM D5185m	2770	<b>3451</b>	3659	2960
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.9</b>	20.6	18.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	<b>5.0</b>	6.7	7.2
Visc @ 100°C	cSt	ASTM D445	14.9	● <b>10.6</b>	▲ 11.0	▲ 11.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW06028303  
**Lab Number** : 06028303  
**Unique Number** : 10778094  
**Test Package** : MAR 2 ( Additional Tests: PercentFuel )

**Received** : 07 Dec 2023  
**Tested** : 14 Dec 2023  
**Diagnosed** : 14 Dec 2023 - Jonathan Hester

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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)