



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>MW05765710</b>	MW05745150	MW05718178
Sample Date		Client Info		<b>12 Feb 2023</b>	19 Jan 2023	14 Dec 2022
Machine Age	hrs	Client Info		<b>19742</b>	19106	18364
Oil Age	hrs	Client Info		<b>636</b>	642	807
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>	ATTENTION	ATTENTION

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	<b>9</b>	3	8
Chromium	ppm	ASTM D5185m	>8	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>3	<b>&lt;1</b>	1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>15	<b>2</b>	0	2
Lead	ppm	ASTM D5185m	>18	<b>13</b>	0	24
Copper	ppm	ASTM D5185m	>80	<b>2</b>	1	3
Tin	ppm	ASTM D5185m	>14	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

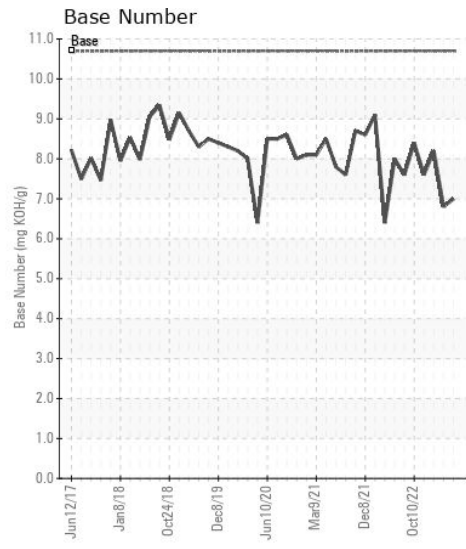
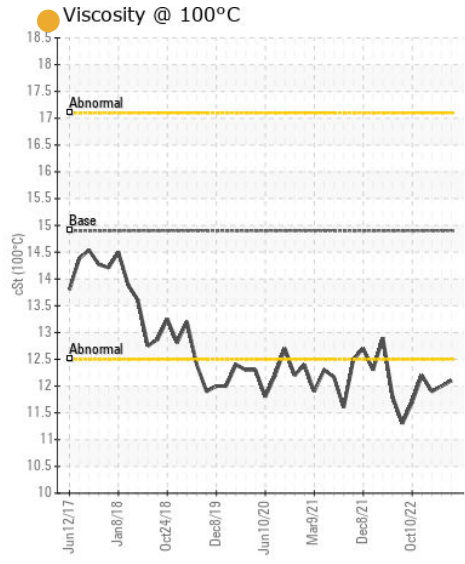
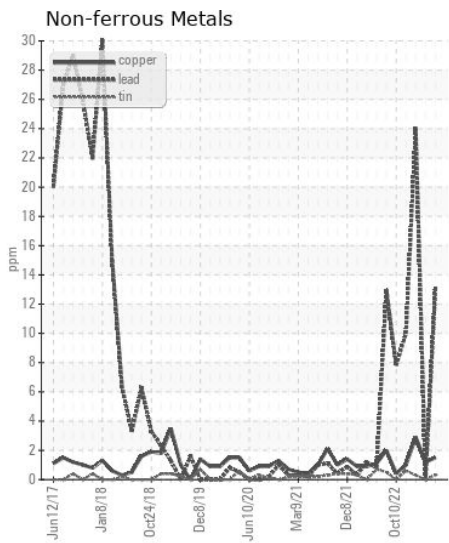
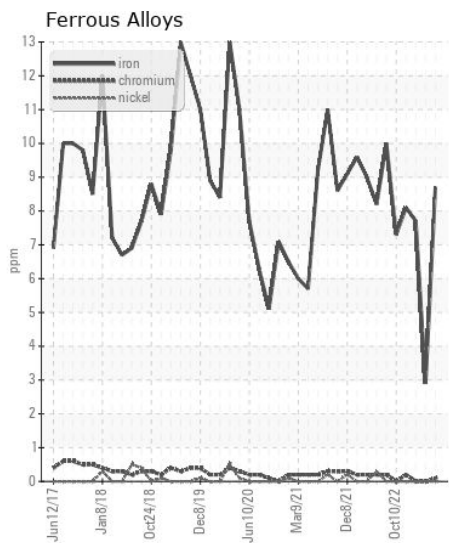
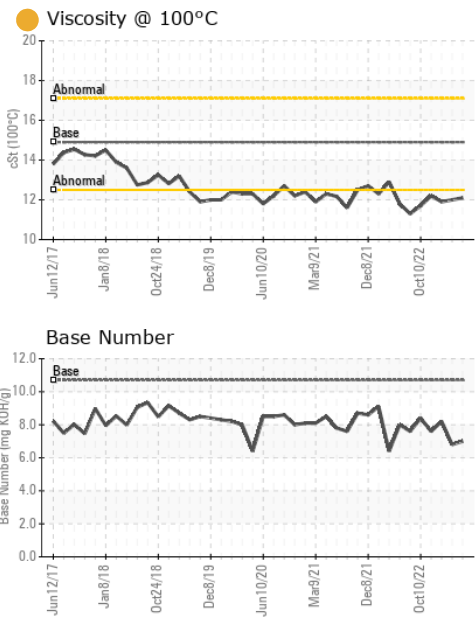
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>5</b>	4	3
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	1	1
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
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>	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.4</b>	7.5	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.5</b>	23.6	25.9
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>1</b>	<1	0
Boron	ppm	ASTM D5185m		<b>379</b>	307	314
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>90</b>	79	109
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>441</b>	426	499
Calcium	ppm	ASTM D5185m		<b>1357</b>	1307	1485
Phosphorus	ppm	ASTM D5185m	760	<b>841</b>	780	750
Zinc	ppm	ASTM D5185m	830	<b>994</b>	936	909
Sulfur	ppm	ASTM D5185m	2770	<b>3236</b>	2638	3115
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.4</b>	20.5	22.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	<b>7.0</b>	6.8	8.2
Visc @ 100°C	cSt	ASTM D445	14.9	<b>12.1</b>	12.0	11.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW05765710  
**Lab Number** : 05765710  
**Unique Number** : 10335318  
**Test Package** : MAR 2

**Received** : 13 Feb 2023  
**Tested** : 14 Feb 2023  
**Diagnosed** : 15 Feb 2023 - Don Baldrige

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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)