



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

**RECOMMENDATION**

We advise that you check the fuel injection system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW05862889</b>	MW05823784	MW05765710
Sample Date		Client Info		<b>01 Jun 2023</b>	18 Apr 2023	12 Feb 2023
Machine Age	hrs	Client Info		<b>21976</b>	21210	19742
Oil Age	hrs	Client Info		<b>866</b>	606	636
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>ABNORMAL</b>	ABNORMAL	ATTENTION

**WEAR**

The lead level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	<b>8</b>	8	9
Chromium	ppm	ASTM D5185m	>8	<b>0</b>	<1	<1
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	0
Aluminum	ppm	ASTM D5185m	>15	<b>0</b>	0	2
Lead	ppm	ASTM D5185m	>18	<b>▲ 27</b>	15	13
Copper	ppm	ASTM D5185m	>80	<b>2</b>	3	2
Tin	ppm	ASTM D5185m	>14	<b>&lt;1</b>	<1	<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**

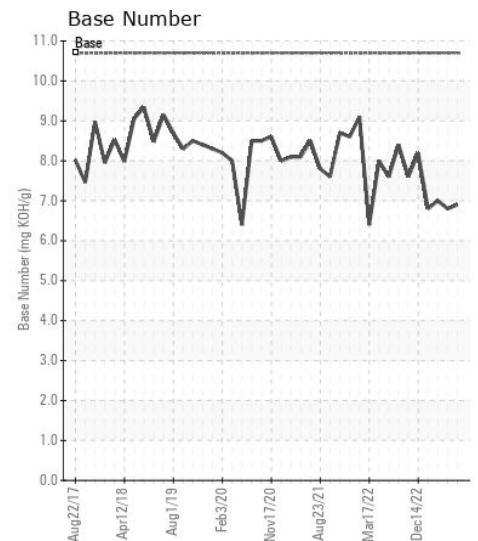
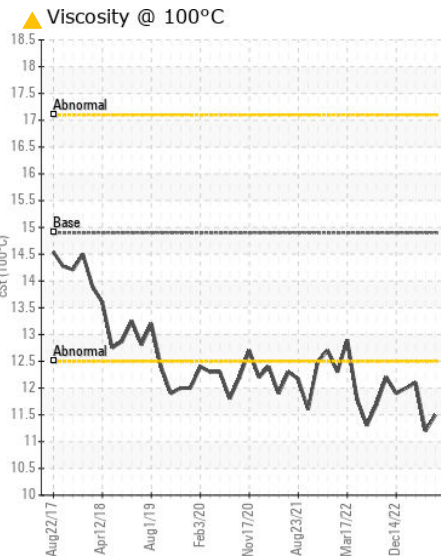
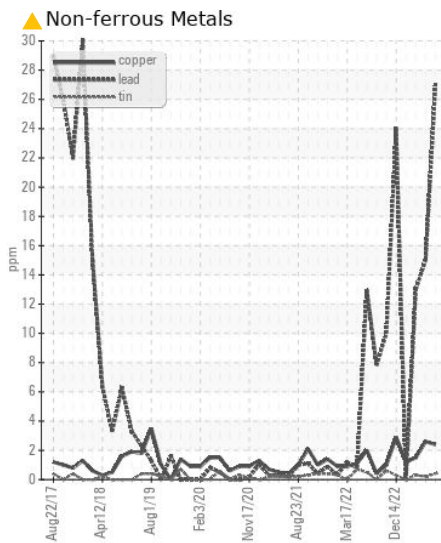
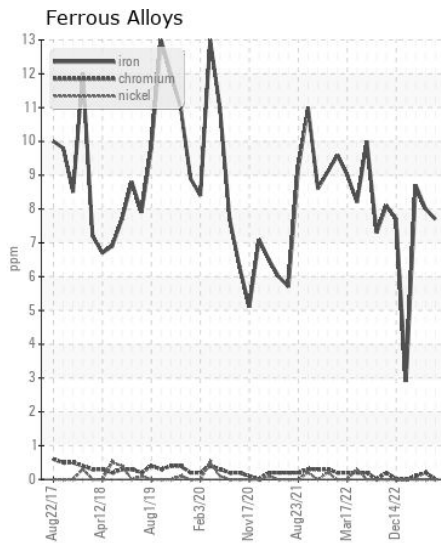
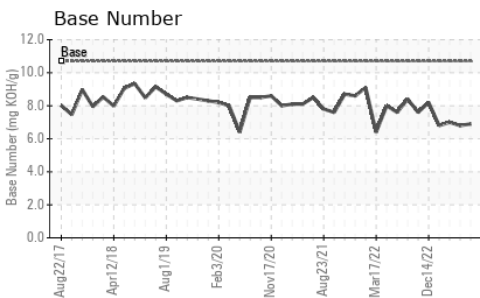
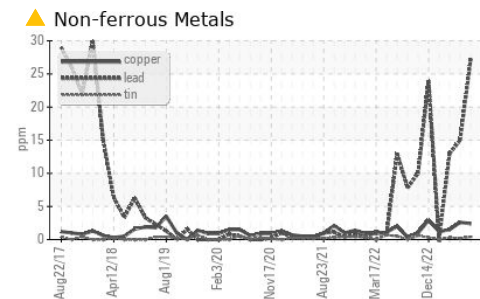
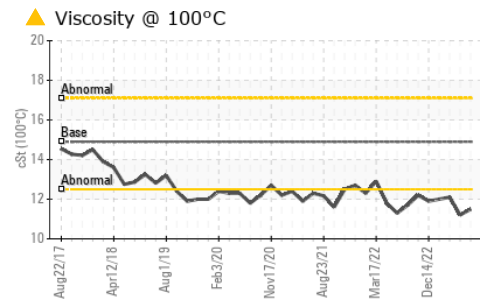
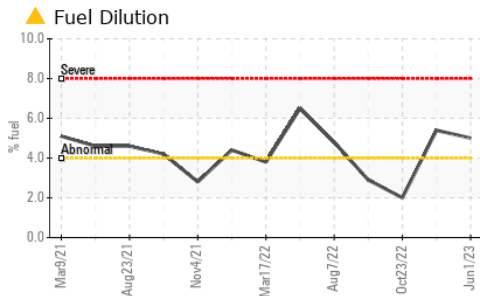
There is a moderate amount of fuel present in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>6</b>	5	5
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	0
Fuel	%	ASTM D3524	>4.0	<b>▲ 5.0</b>	▲ 5.4	<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>8.5</b>	7.6	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.5</b>	24.2	23.5
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**

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Sodium	ppm	ASTM D5185m	>75	<b>&lt;1</b>	<1	1
Boron	ppm	ASTM D5185m		<b>269</b>	300	379
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>93</b>	96	90
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>500</b>	483	441
Calcium	ppm	ASTM D5185m		<b>1673</b>	1472	1357
Phosphorus	ppm	ASTM D5185m	760	<b>719</b>	718	841
Zinc	ppm	ASTM D5185m	830	<b>887</b>	865	994
Sulfur	ppm	ASTM D5185m	2770	<b>3012</b>	2302	3236
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>23.8</b>	22.1	20.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	<b>6.9</b>	6.8	7.0
Visc @ 100°C	cSt	ASTM D445	14.9	<b>▲ 11.5</b>	▲ 11.2	● 12.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW05862889 **Received** : 02 Jun 2023  
**Lab Number** : 05862889 **Tested** : 05 Jun 2023  
**Unique Number** : 10497354 **Diagnosed** : 05 Jun 2023 - Don Baldrige  
**Test Package** : MAR 2 ( Additional Tests: 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)