



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>ABNORMAL</b>

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

**RECOMMENDATION**

We recommend that you change the oil at the next available stoppage or outage. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW05981754</b>	MW05981750	MW05862889
Sample Date		Client Info		<b>16 Oct 2023</b>	16 Oct 2023	01 Jun 2023
Machine Age	hrs	Client Info		<b>22594</b>	22405	21976
Oil Age	hrs	Client Info		<b>618</b>	429	866
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	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	<b>7</b>	5	8
Chromium	ppm	ASTM D5185m	>8	<b>1</b>	<1	0
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	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>3</b>	2	0
Lead	ppm	ASTM D5185m	>18	<b>11</b>	9	▲ 27
Copper	ppm	ASTM D5185m	>80	<b>2</b>	2	2
Tin	ppm	ASTM D5185m	>14	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

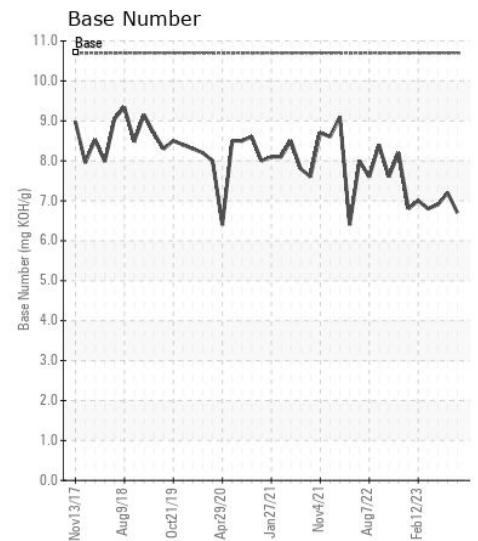
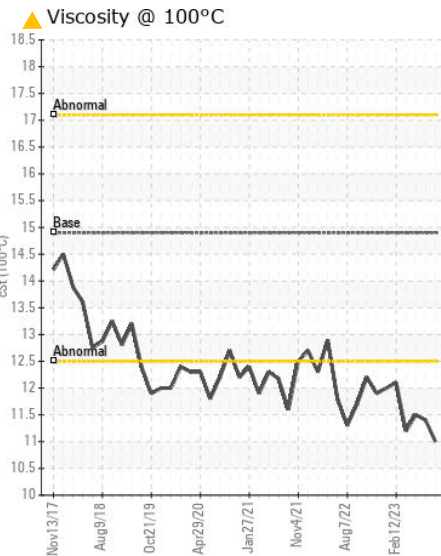
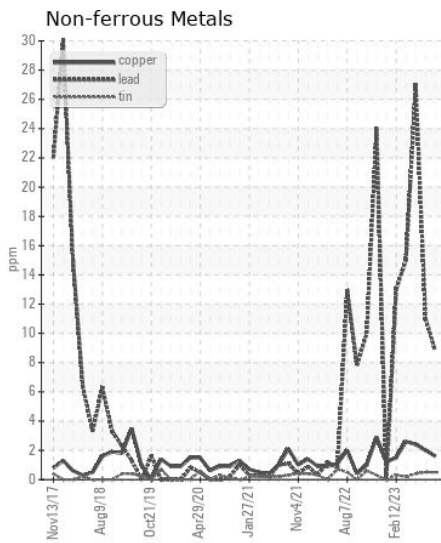
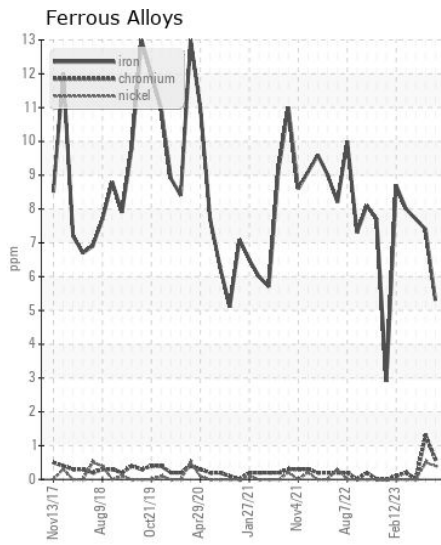
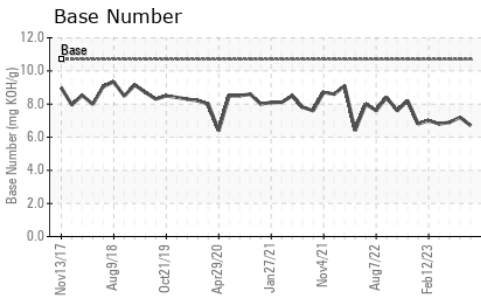
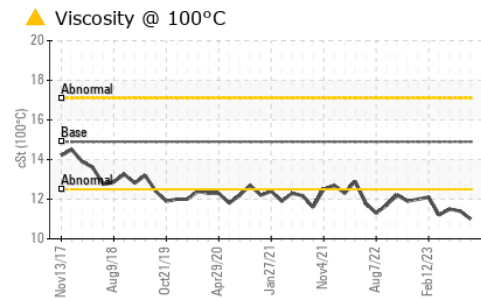
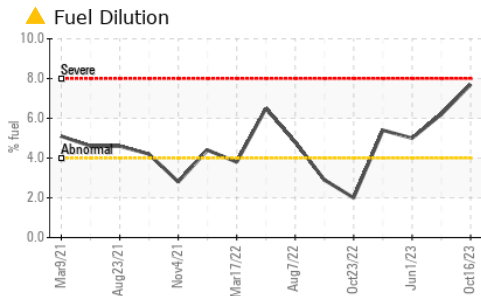
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>5</b>	5	6
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	<1
Fuel	%	ASTM D3524	>4.0	<b>▲ 7.7</b>	▲ 6.2	▲ 5.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.1</b>	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.7</b>	6.5	8.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.8</b>	21.8	25.5
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**

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m	>75	<b>&lt;1</b>	0	<1
Boron	ppm	ASTM D5185m		<b>441</b>	400	269
Barium	ppm	ASTM D5185m		<b>10</b>	10	0
Molybdenum	ppm	ASTM D5185m		<b>102</b>	90	93
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>463</b>	400	500
Calcium	ppm	ASTM D5185m		<b>1598</b>	1399	1673
Phosphorus	ppm	ASTM D5185m	760	<b>945</b>	831	719
Zinc	ppm	ASTM D5185m	830	<b>1136</b>	982	887
Sulfur	ppm	ASTM D5185m	2770	<b>3659</b>	2960	3012
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.6</b>	18.8	23.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	<b>6.7</b>	7.2	6.9
Visc @ 100°C	cSt	ASTM D445	14.9	<b>▲ 11.0</b>	▲ 11.4	▲ 11.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW05981754 **Received** : 17 Oct 2023  
**Lab Number** : 05981754 **Tested** : 18 Oct 2023  
**Unique Number** : 10699049 **Diagnosed** : 18 Oct 2023 - Wes Davis  
**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)