



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

Machine Id  
**BILL RODGERS**

Component  
**Port Main Engine**

Fluid  
**CHEVRON DELO 400 XLE 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW05843073</b>	MW05745148	MW05718319
Sample Date		Client Info		<b>09 May 2023</b>	19 Jan 2023	14 Dec 2022
Machine Age	hrs	Client Info		<b>10224</b>	9472	8679
Oil Age	hrs	Client Info		<b>752</b>	793	525
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>NORMAL</b>	ABNORMAL	ATTENTION

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	<b>0</b>	7	1
Chromium	ppm	ASTM D5185m	>8	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>3	<b>0</b>	0	1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>15	<b>5</b>	0	2
Lead	ppm	ASTM D5185m	>18	<b>0</b>	▲ 26	<1
Copper	ppm	ASTM D5185m	>80	<b>0</b>	2	<1
Tin	ppm	ASTM D5185m	>14	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

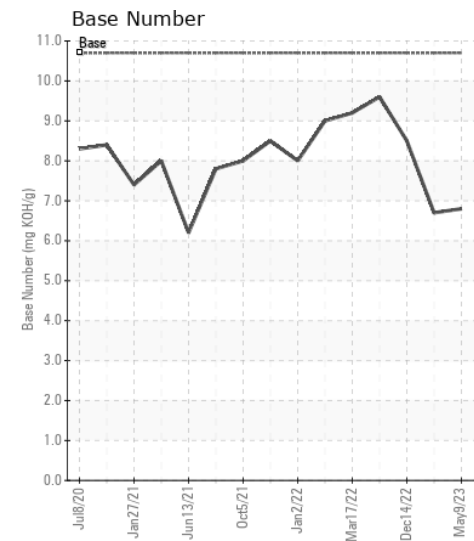
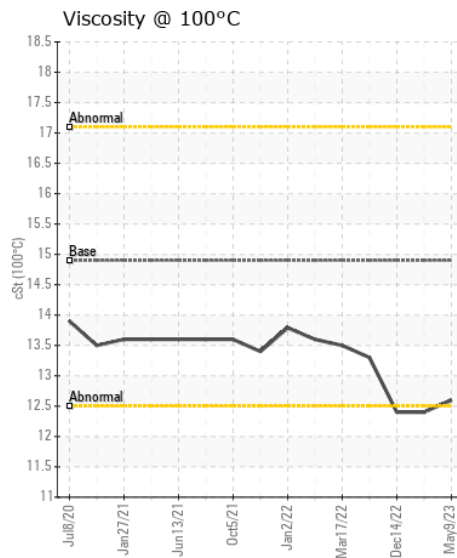
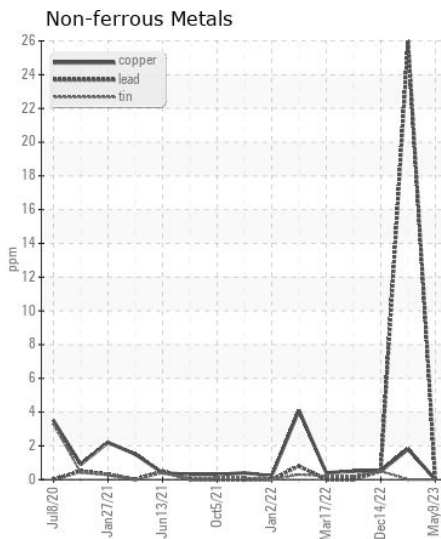
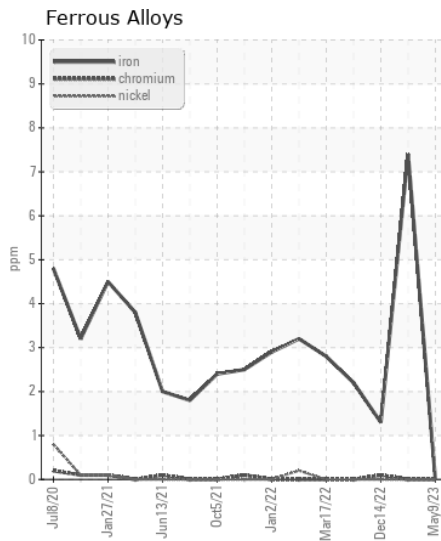
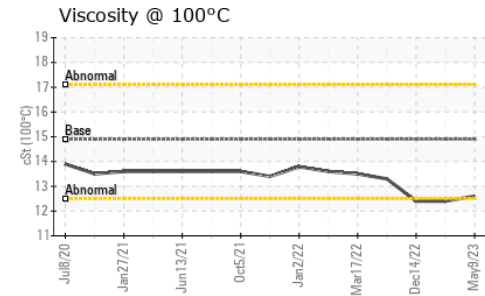
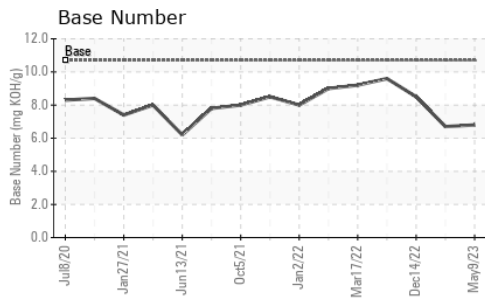
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>3</b>	5	5
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	1	0
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	▲ 2.4
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	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.7</b>	7.5	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.8</b>	20.7	21.5
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. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>75	<b>&lt;1</b>	0	<1
Boron	ppm	ASTM D5185m		<b>329</b>	338	319
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>86</b>	90	88
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>468</b>	427	518
Calcium	ppm	ASTM D5185m		<b>1470</b>	1322	1333
Phosphorus	ppm	ASTM D5185m	760	<b>871</b>	805	789
Zinc	ppm	ASTM D5185m	830	<b>1066</b>	960	918
Sulfur	ppm	ASTM D5185m	2770	<b>3179</b>	2464	3214
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.8</b>	16.2	15.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	<b>6.8</b>	6.7	8.5
Visc @ 100°C	cSt	ASTM D445	14.9	<b>12.6</b>	12.4	● 12.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW05843073  
**Lab Number** : 05843073  
**Unique Number** : 10467180  
**Test Package** : MAR 2  
**Received** : 10 May 2023  
**Tested** : 12 May 2023  
**Diagnosed** : 12 May 2023 - Wes Davis

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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)