



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

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

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW05843079</b>	MW05823769	MW05774580
Sample Date		Client Info		<b>09 May 2023</b>	18 Apr 2023	22 Feb 2023
Machine Age	hrs	Client Info		<b>58680</b>	57826	56941
Oil Age	hrs	Client Info		<b>822</b>	885	777
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>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	<b>2</b>	3	2
Chromium	ppm	ASTM D5185m	>8	<b>&lt;1</b>	0	<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>1</b>	0	2
Lead	ppm	ASTM D5185m	>18	<b>&lt;1</b>	0	1
Copper	ppm	ASTM D5185m	>80	<b>&lt;1</b>	<1	0
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**

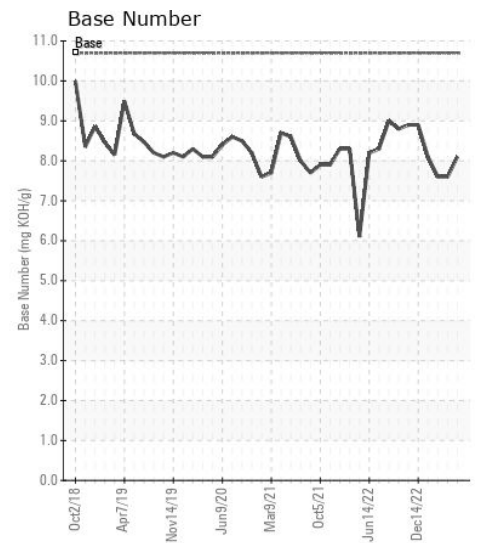
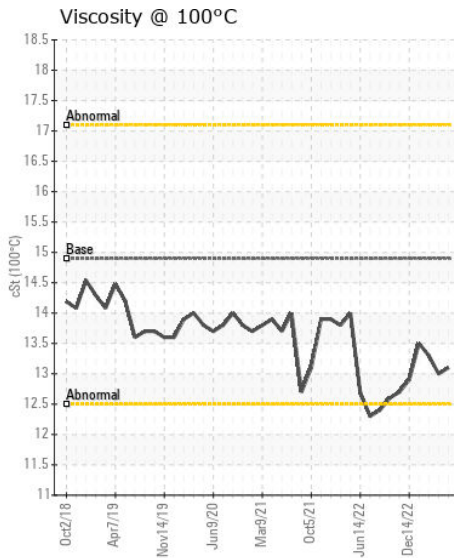
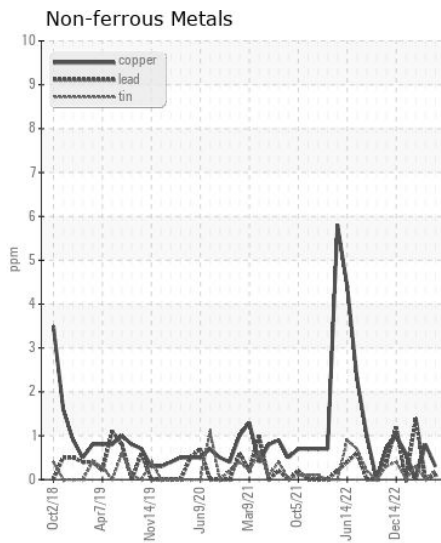
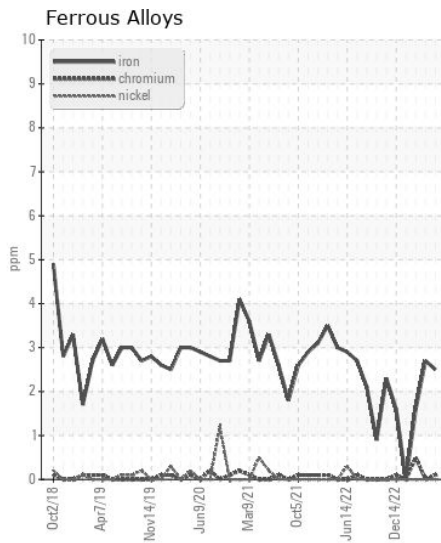
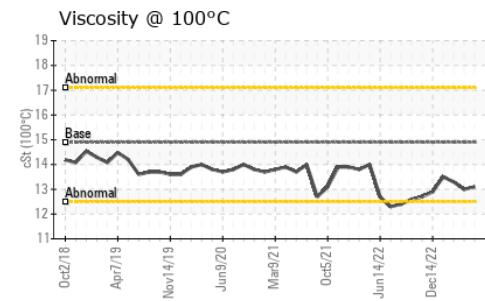
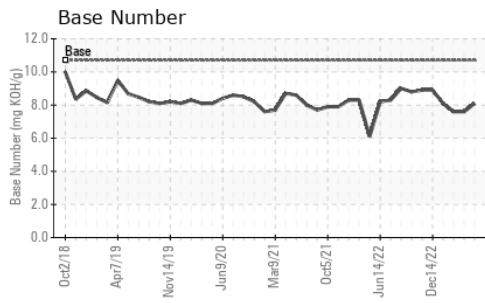
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>4</b>	4	4
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	1	2
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>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.9</b>	6.3	5.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.0</b>	21.9	20.7
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>	<1	0
Boron	ppm	ASTM D5185m		<b>316</b>	335	372
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>90</b>	94	86
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>461</b>	483	466
Calcium	ppm	ASTM D5185m		<b>1342</b>	1558	1444
Phosphorus	ppm	ASTM D5185m	760	<b>738</b>	763	923
Zinc	ppm	ASTM D5185m	830	<b>917</b>	926	1177
Sulfur	ppm	ASTM D5185m	2770	<b>2875</b>	2697	3370
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.3</b>	16.2	14.9
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	<b>8.1</b>	7.6	7.6
Visc @ 100°C	cSt	ASTM D445	14.9	<b>13.1</b>	13.0	13.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW05843079  
**Lab Number** : 05843079  
**Unique Number** : 10467186  
**Test Package** : MAR 2  
**Received** : 10 May 2023  
**Tested** : 11 May 2023  
**Diagnosed** : 12 May 2023 - Angela Borella

**ILLINOIS MARINE TOWING**  
 PO BOX 391  
 LEMONT, IL  
 US 60439  
 Contact: RHETT DANIEL  
 rdaniel@imtowing.com  
 T: (630)280-4926  
 F: (630)739-2041

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)