



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

Area  
**OZZIE**  
Machine Id  
**[OZZIE] 001 296245-1**  
Component  
**Port Main Engine**  
Fluid  
**CHEVRON DELO 710 LE (350 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0053781</b>	MW0053776	MW0034327
Sample Date		Client Info		<b>01 Jan 2024</b>	01 Dec 2023	01 Nov 2023
Machine Age	hrs	Client Info		<b>23021</b>	22278	21557
Oil Age	hrs	Client Info		<b>3111</b>	2372	1647
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	>50	<b>14</b>	15	12
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>11	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>5	<b>2</b>	2	2
Lead	ppm	ASTM D5185m	>10	<b>3</b>	2	3
Copper	ppm	ASTM D5185m	>20	<b>12</b>	11	8
Tin	ppm	ASTM D5185m	>1	<b>4</b>	4	4
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**

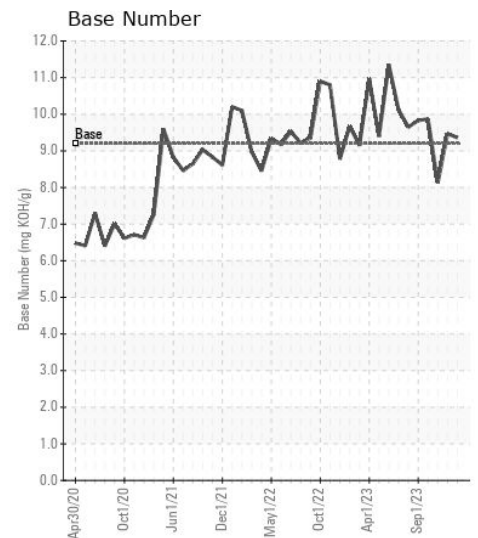
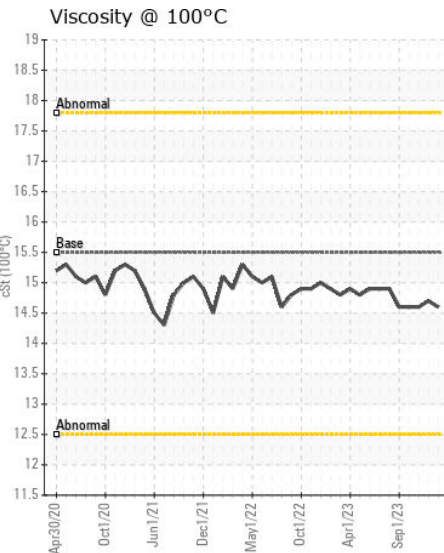
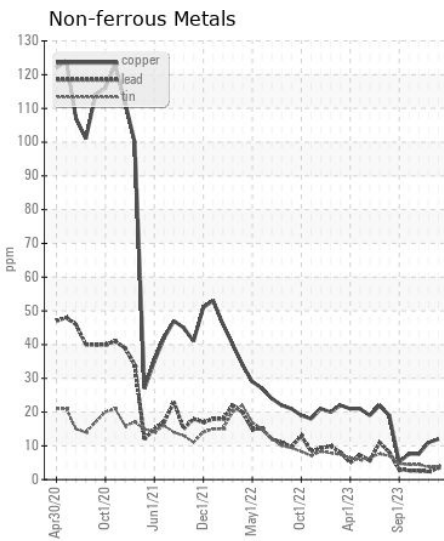
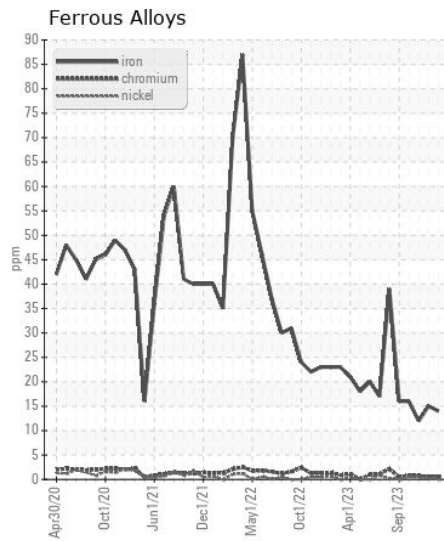
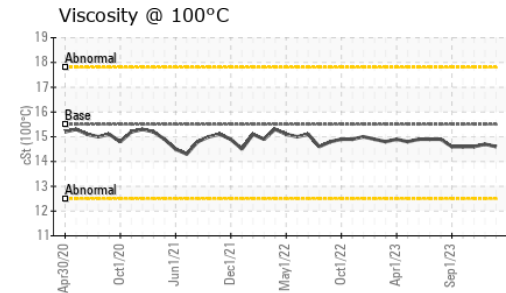
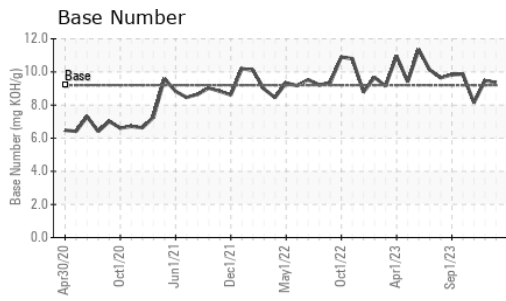
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>5	<b>4</b>	4	4
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	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>8.2</b>	8.0	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>16.6</b>	16.4	16.1
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>0</b>	0	<1
Boron	ppm	ASTM D5185m		<b>39</b>	39	46
Barium	ppm	ASTM D5185m		<b>1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>49</b>	48	45
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>13</b>	12	19
Calcium	ppm	ASTM D5185m		<b>3535</b>	3545	3390
Phosphorus	ppm	ASTM D5185m		<b>32</b>	2	4
Zinc	ppm	ASTM D5185m	10	<b>0</b>	0	3
Sulfur	ppm	ASTM D5185m		<b>2515</b>	2413	2364
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>9.2</b>	9.1	8.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.2	<b>9.36</b>	9.47	8.13
Visc @ 100°C	cSt	ASTM D445	15.5	<b>14.6</b>	14.7	14.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0053781 **Received** : 18 Jan 2024  
**Lab Number** : 06065127 **Diagnosed** : 22 Jan 2024  
**Unique Number** : 10836509 **Diagnostician** : Sean Felton  
**Test Package** : MAR 2

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)

**INGRAM BARGE**  
 900 S 3RD ST  
 PADUCAH, KY  
 US 42003

Contact: ANTHONY VAN CURA  
 anthony.vancura@ingrambarga.com  
 T: (270)415-4467  
 F: (615)695-3697