



Machine Id  
**GENE NEAL**  
Component  
**Port Main Engine**  
Fluid  
**CHEVRON DELO 710 LE (250 GAL)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0058003</b>	MW0057996	MW0057814
Sample Date		Client Info		<b>05 Dec 2023</b>	06 Nov 2023	06 Oct 2023
Machine Age	hrs	Client Info		<b>26799</b>	26359	25854
Oil Age	hrs	Client Info		<b>1066</b>	637	129
Filter Age	hrs	Client Info		<b>1066</b>	637	129
Oil Changed		Client Info		<b>Not Changd</b>	N/A	N/A
Filter Changed		Client Info		<b>Not Changd</b>	N/A	N/A
Sample Status				<b>ATTENTION</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	<b>10</b>	6	5
Chromium	ppm	ASTM D5185m	>8	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>15	<b>2</b>	2	3
Lead	ppm	ASTM D5185m	>18	<b>13</b>	2	1
Copper	ppm	ASTM D5185m	>80	<b>9</b>	5	3
Tin	ppm	ASTM D5185m	>14	<b>2</b>	2	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**

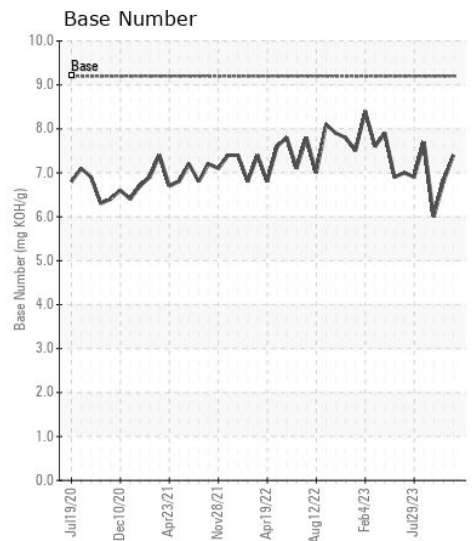
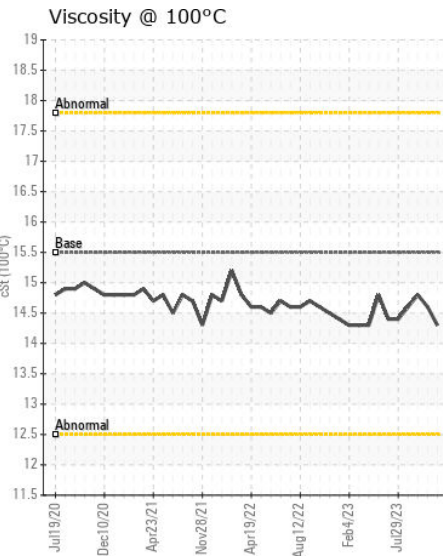
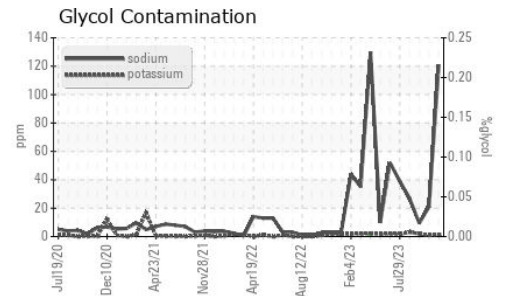
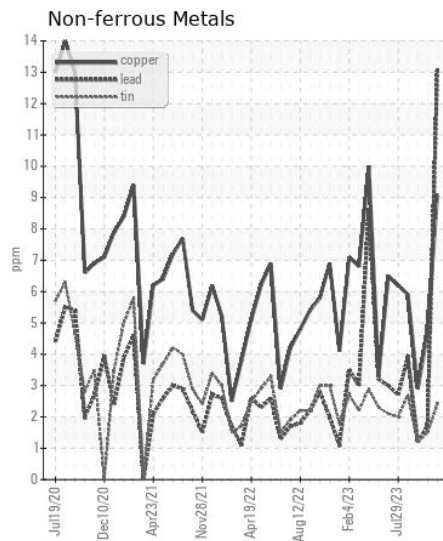
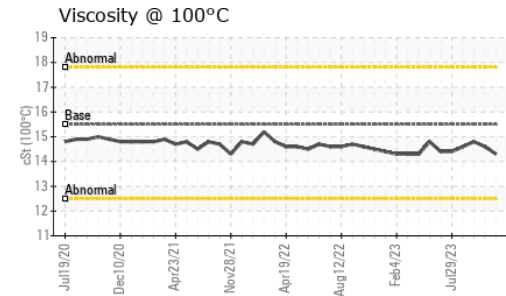
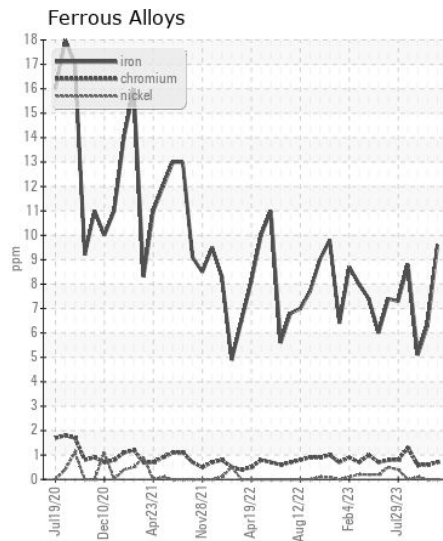
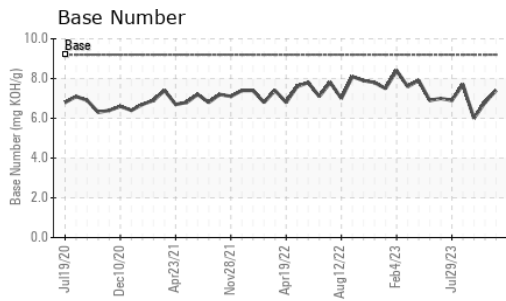
The high sodium (Na) level indicates the possible presence of salt water. Test for glycol is negative.

Silicon	ppm	ASTM D5185m	>20	<b>9</b>	4	3
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	%	*ASTM D2982		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.2</b>	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.5</b>	6.9	5.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>15.7</b>	14.9	14.0
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>▲ 121</b>	21	9
Boron	ppm	ASTM D5185m		<b>59</b>	41	42
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>44</b>	43	41
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>21</b>	14	13
Calcium	ppm	ASTM D5185m		<b>3381</b>	3337	3040
Phosphorus	ppm	ASTM D5185m		<b>13</b>	12	15
Zinc	ppm	ASTM D5185m	10	<b>11</b>	10	10
Sulfur	ppm	ASTM D5185m		<b>2235</b>	2217	2628
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>7.7</b>	7.5	6.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.2	<b>7.4</b>	6.8	6.0
Visc @ 100°C	cSt	ASTM D445	15.5	<b>14.3</b>	14.6	14.8



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0058003 **Received** : 16 Jan 2024  
**Lab Number** : 06061676 **Diagnosed** : 18 Jan 2024  
**Unique Number** : 10833058 **Diagnostician** : Jonathan Hester  
**Test Package** : MAR 2 ( Additional Tests: Glycol )

**MAGNOLIA MARINE TRANSPORT**  
 697 HAINING ROAD  
 VICKSBURG, MS  
 US 39183  
 Contact: MMT MAINTENANCE PLANNERS  
 mmtmaintenanceplanners@ergon.com

Certificate L2367  
 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)

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