



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>MW0057979</b>	MW0058005	MW0058003
Sample Date		Client Info		<b>23 Jan 2024</b>	01 Jan 2024	05 Dec 2023
Machine Age	hrs	Client Info		<b>27799</b>	27290	26799
Oil Age	hrs	Client Info		<b>2088</b>	1556	1066
Filter Age	hrs	Client Info		<b>678</b>	146	1066
Oil Changed		Client Info		<b>Not Changd</b>	N/A	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	N/A	Not Changd
Sample Status				<b>ATTENTION</b>	ATTENTION	ATTENTION

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	<b>11</b>	8	10
Chromium	ppm	ASTM D5185m	>8	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
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	2
Lead	ppm	ASTM D5185m	>18	<b>9</b>	9	13
Copper	ppm	ASTM D5185m	>80	<b>9</b>	8	9
Tin	ppm	ASTM D5185m	>14	<b>3</b>	2	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

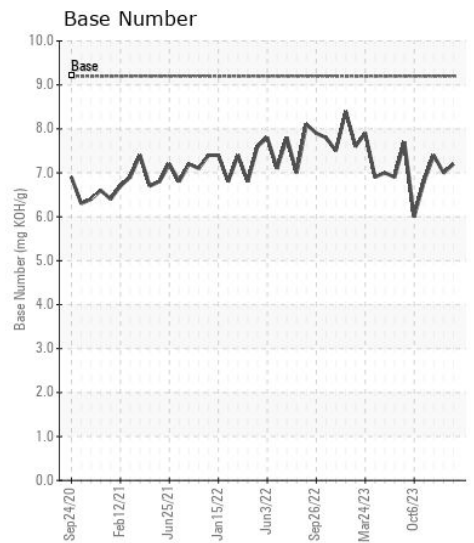
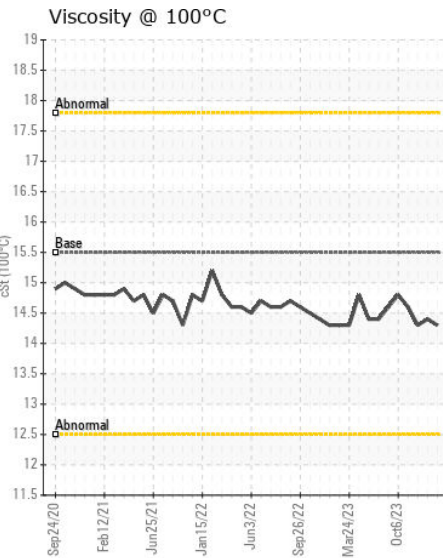
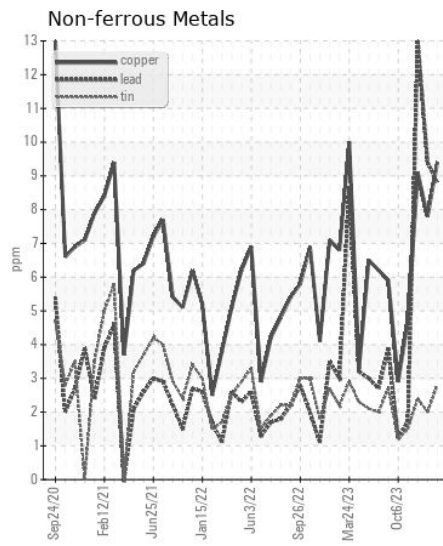
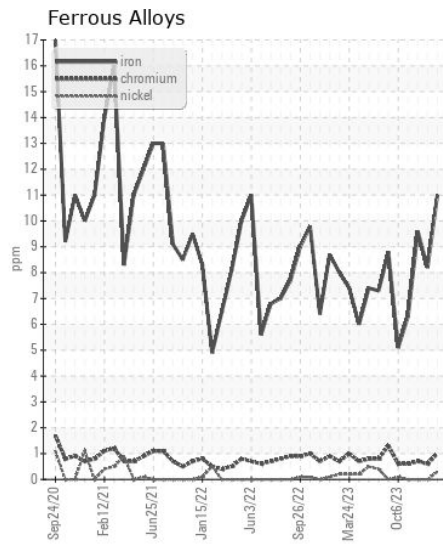
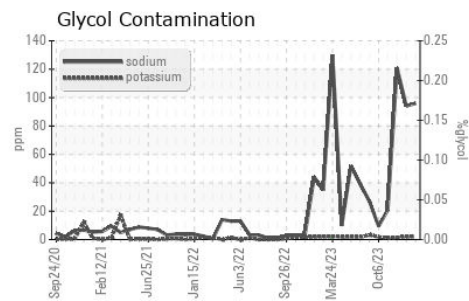
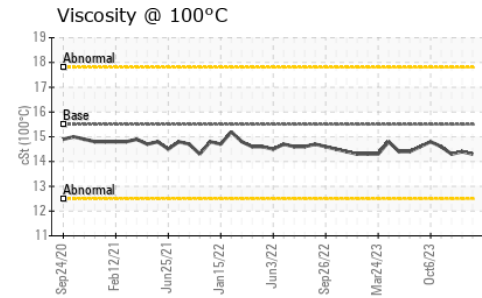
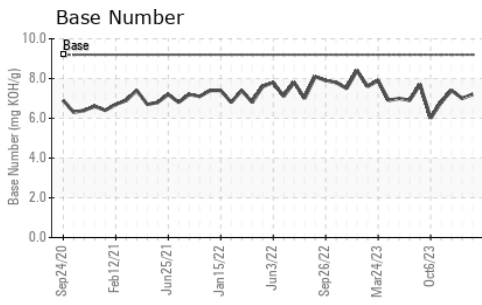
The high sodium (Na) level indicates the possible presence of salt water. Test for glycol is negative.

Silicon	ppm	ASTM D5185m	>20	<b>8</b>	8	9
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	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>7.4</b>	7.0	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>15.6</b>	15.2	15.7
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>96</b>	94	121
Boron	ppm	ASTM D5185m		<b>57</b>	64	59
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>49</b>	47	44
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>14</b>	36	21
Calcium	ppm	ASTM D5185m		<b>3556</b>	3324	3381
Phosphorus	ppm	ASTM D5185m		<b>17</b>	26	13
Zinc	ppm	ASTM D5185m	10	<b>11</b>	31	11
Sulfur	ppm	ASTM D5185m		<b>2515</b>	2263	2235
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>7.9</b>	7.4	7.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.2	<b>7.2</b>	7.0	7.4
Visc @ 100°C	cSt	ASTM D445	15.5	<b>14.3</b>	14.4	14.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : MW0057979

**Lab Number** : 06104935

**Unique Number** : 10903165

**Test Package** : MAR 2 ( Additional Tests: Glycol )

**Received** : 29 Feb 2024

**Tested** : 04 Mar 2024

**Diagnosed** : 04 Mar 2024 - Don Baldrige

**MAGNOLIA MARINE TRANSPORT**

697 HAINING ROAD

VICKSBURG, MS

US 39183

Contact: MMT MAINTENANCE PLANNERS

mmtmaintenanceplanners@ergon.com

T: x:

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)

F: (601)638-8028