



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

Area  
**CLARENCE G FRAME**  
Machine Id  
**[CLARENCE G FRAME] 001 574683-1**  
Component  
**Port Main Engine**  
Fluid  
**CHEVRON DELO 710 LS (200 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW06058838</b>	MW06032896	MW0600087
Sample Date		Client Info		<b>01 Jan 2024</b>	01 Dec 2023	25 Oct 2023
Machine Age	hrs	Client Info		<b>34606</b>	33867	33027
Oil Age	hrs	Client Info		<b>34606</b>	33867	33027
Filter Age	hrs	Client Info		<b>0</b>	0	24
Oil Changed		Client Info		<b>N/A</b>	N/A	Not Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	<b>20</b>	16	17
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	0
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>6</b>	4	6
Copper	ppm	ASTM D5185m	>80	<b>24</b>	22	22
Tin	ppm	ASTM D5185m	>14	<b>6</b>	6	6
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

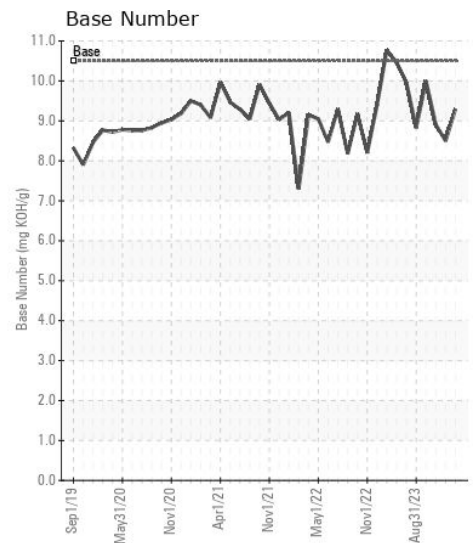
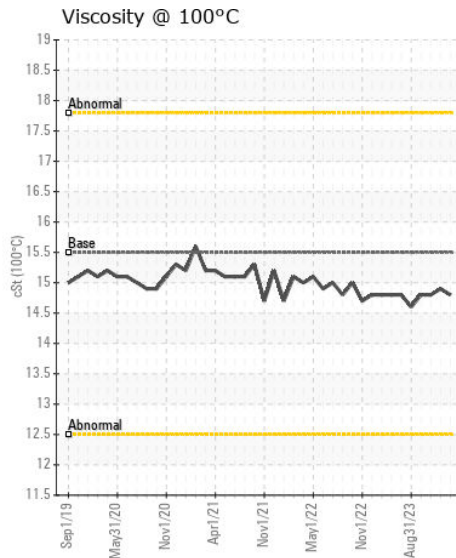
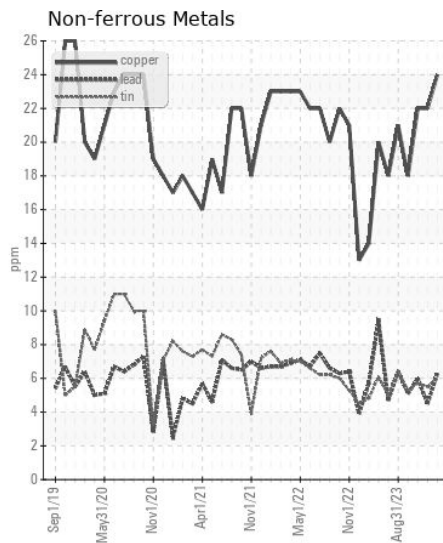
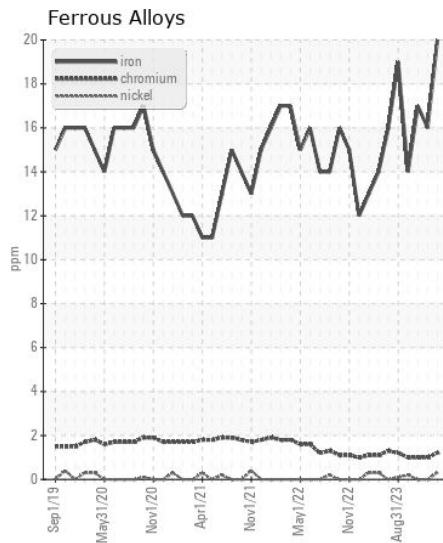
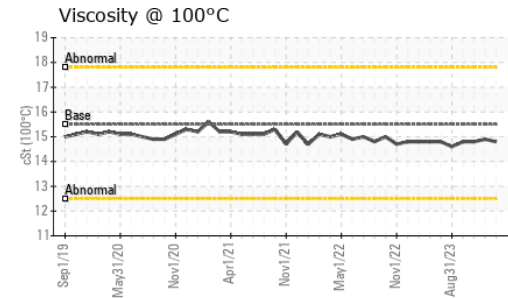
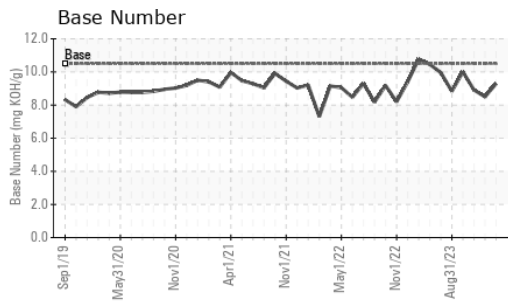
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>6</b>	5	6
Potassium	ppm	ASTM D5185m	>20	<b>3</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	>3	<b>1.3</b>	1.3	1.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.7</b>	8.5	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.3</b>	18.2	18.5
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>	4	5
Boron	ppm	ASTM D5185m		<b>43</b>	41	37
Barium	ppm	ASTM D5185m		<b>3</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>48</b>	45	47
Manganese	ppm	ASTM D5185m		<b>2</b>	2	<1
Magnesium	ppm	ASTM D5185m		<b>13</b>	15	31
Calcium	ppm	ASTM D5185m		<b>3419</b>	3475	3329
Phosphorus	ppm	ASTM D5185m		<b>21</b>	5	20
Zinc	ppm	ASTM D5185m		<b>0</b>	0	22
Sulfur	ppm	ASTM D5185m		<b>2646</b>	2426	2314
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>8.6</b>	8.5	8.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	<b>9.29</b>	8.50	8.91
Visc @ 100°C	cSt	ASTM D445	15.5	<b>14.8</b>	14.9	14.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW06058838 **Recieved** : 11 Jan 2024  
**Lab Number** : 06058838 **Diagnosed** : 15 Jan 2024  
**Unique Number** : 10830220 **Diagnostician** : Wes Davis  
**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)

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