



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

Machine Id  
**CAPT RICKIE JOHNSON (S/N 74G1-1161)**

Component  
**Port Main Engine**

Fluid  
**CHEVRON DELO 710 LE (250 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MWM727712</b>	MWM727682	MWM727692
Sample Date		Client Info		<b>03 Jan 2024</b>	26 Nov 2023	08 Oct 2023
Machine Age	hrs	Client Info		<b>43092</b>	42169	40998
Oil Age	hrs	Client Info		<b>17108</b>	16199	15041
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	<b>21</b>	21	16
Chromium	ppm	ASTM D5185m	>8	<b>&lt;1</b>	1	1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	>3	<b>0</b>	<1	<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>&lt;1</b>	2	1
Copper	ppm	ASTM D5185m	>80	<b>11</b>	12	10
Tin	ppm	ASTM D5185m	>14	<b>&lt;1</b>	2	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**

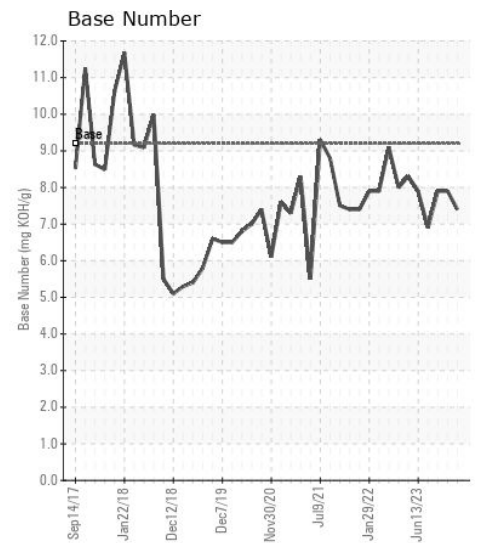
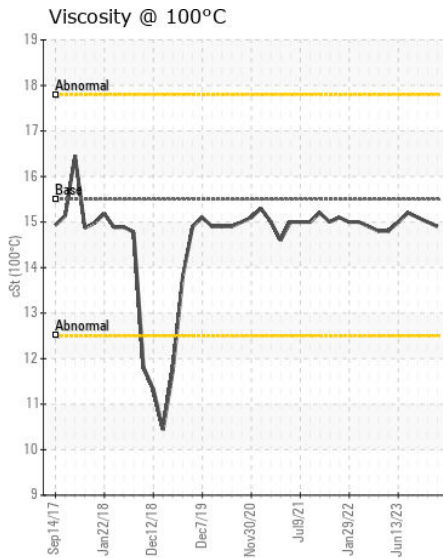
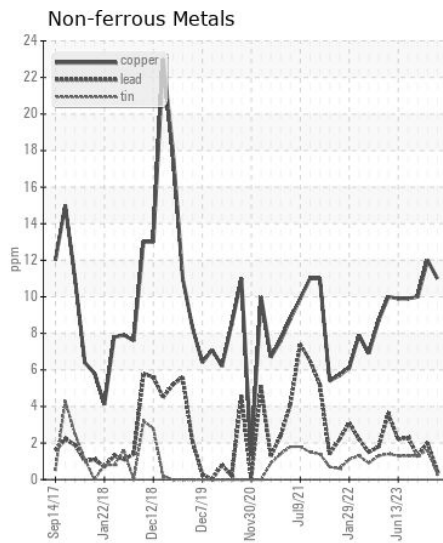
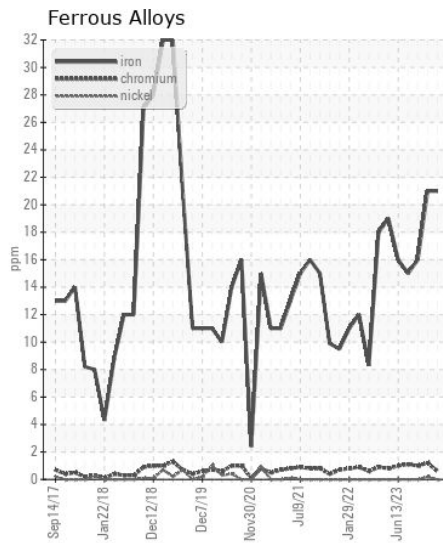
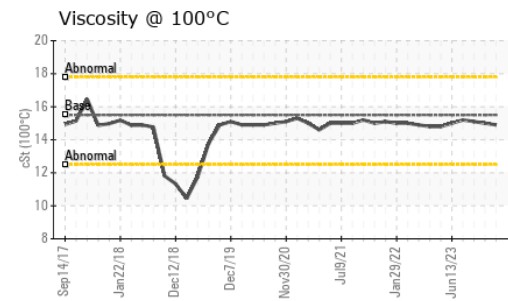
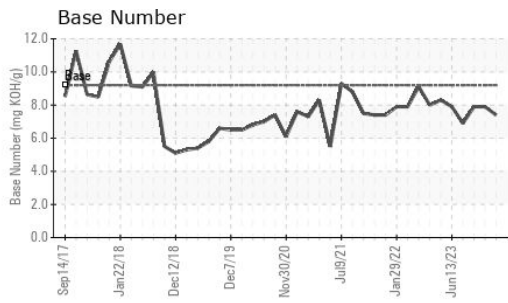
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>3</b>	4	4
Potassium	ppm	ASTM D5185m	>20	<b>97</b>	97	76
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>1.7</b>	1.6	1.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.1</b>	8.3	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.0</b>	17.4	17.7
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>16</b>	11	13
Boron	ppm	ASTM D5185m		<b>35</b>	32	31
Barium	ppm	ASTM D5185m		<b>0</b>	8	0
Molybdenum	ppm	ASTM D5185m		<b>46</b>	47	44
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>10</b>	11	14
Calcium	ppm	ASTM D5185m		<b>3344</b>	3415	3268
Phosphorus	ppm	ASTM D5185m		<b>46</b>	12	6
Zinc	ppm	ASTM D5185m	10	<b>0</b>	0	0
Sulfur	ppm	ASTM D5185m		<b>2916</b>	2620	2354
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>7.9</b>	8.0	7.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.2	<b>7.4</b>	7.9	7.9
Visc @ 100°C	cSt	ASTM D445	15.5	<b>14.9</b>	15.0	15.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MWM727712 **Received** : 10 Jan 2024  
**Lab Number** : 06057195 **Diagnosed** : 11 Jan 2024  
**Unique Number** : 10823144 **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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