



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

Area  
**ELEANOR G MCDONALD**  
Machine Id  
**[ELEANOR G MCDONALD] 001 552824-1**  
Component  
**Port Main Engine**  
Fluid  
**CHEVRON DELO 710 LS (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0065696</b>	MW0055470	MW0051522
Sample Date		Client Info		<b>01 Jan 2024</b>	01 Dec 2023	01 Nov 2023
Machine Age	hrs	Client Info		<b>93794</b>	11454	92318
Oil Age	hrs	Client Info		<b>12213</b>	11454	10737
Filter Age	hrs	Client Info		<b>407</b>	286	357
Oil Changed		Client Info		<b>N/A</b>	Changed	Not Changed
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>19</b>	18	18
Chromium	ppm	ASTM D5185m	>8	<b>2</b>	2	1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>15	<b>2</b>	2	1
Lead	ppm	ASTM D5185m	>18	<b>6</b>	4	5
Copper	ppm	ASTM D5185m	>80	<b>18</b>	18	17
Tin	ppm	ASTM D5185m	>14	<b>6</b>	6	5
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**

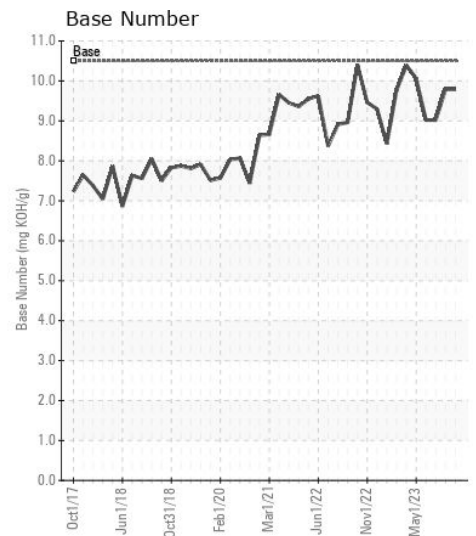
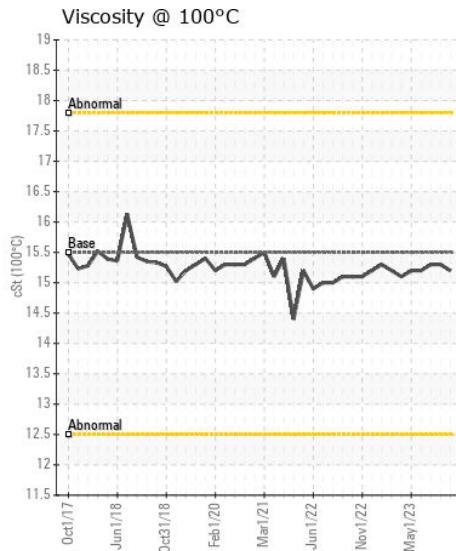
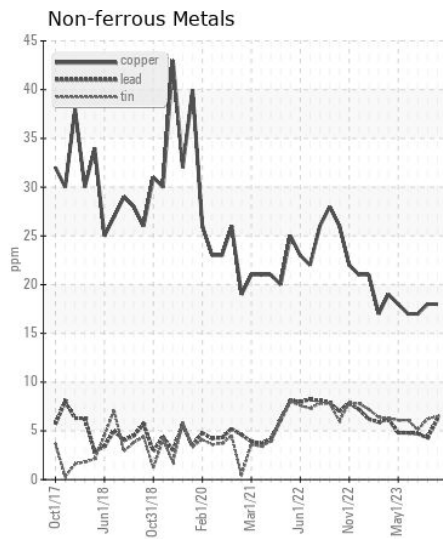
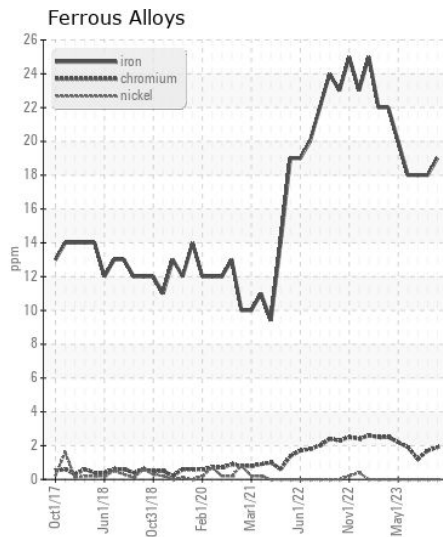
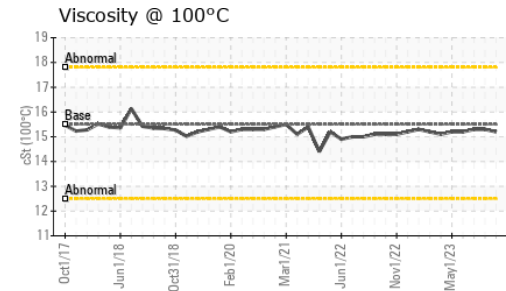
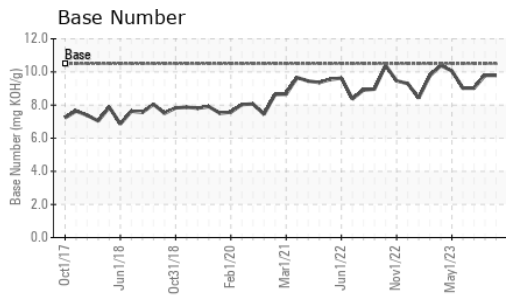
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>4</b>	5	4
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</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>1.5</b>	1.4	1.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.9</b>	8.9	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.6</b>	18.5	18.6
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>	<1	1
Boron	ppm	ASTM D5185m		<b>39</b>	42	42
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>47</b>	45	46
Manganese	ppm	ASTM D5185m		<b>1</b>	1	<1
Magnesium	ppm	ASTM D5185m		<b>29</b>	30	36
Calcium	ppm	ASTM D5185m		<b>3529</b>	3383	3437
Phosphorus	ppm	ASTM D5185m		<b>23</b>	25	34
Zinc	ppm	ASTM D5185m		<b>22</b>	19	41
Sulfur	ppm	ASTM D5185m		<b>2603</b>	2323	2636
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>8.9</b>	9.2	9.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	<b>9.79</b>	9.79	9.02
Visc @ 100°C	cSt	ASTM D445	15.5	<b>15.2</b>	15.3	15.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0065696 **Received** : 08 Jan 2024  
**Lab Number** : 06054096 **Diagnosed** : 09 Jan 2024  
**Unique Number** : 10820045 **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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