



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

Area  
**DENNIS BOTTORFF**  
Machine Id  
**[DENNIS BOTTORFF] 001 569953-1**  
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>MW0064504</b>	MW0027146	MW0041478
Sample Date		Client Info		<b>01 Jan 2024</b>	01 Dec 2023	01 Nov 2023
Machine Age	hrs	Client Info		<b>40852</b>	40108	39388
Oil Age	hrs	Client Info		<b>40852</b>	40108	39388
Filter Age	hrs	Client Info		<b>0</b>	446	39388
Oil Changed		Client Info		<b>N/A</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	ATTENTION	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	<b>20</b>	31	19
Chromium	ppm	ASTM D5185m	>8	<b>2</b>	1	2
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>3</b>	4	4
Copper	ppm	ASTM D5185m	>80	<b>17</b>	22	14
Tin	ppm	ASTM D5185m	>14	<b>3</b>	4	3
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**

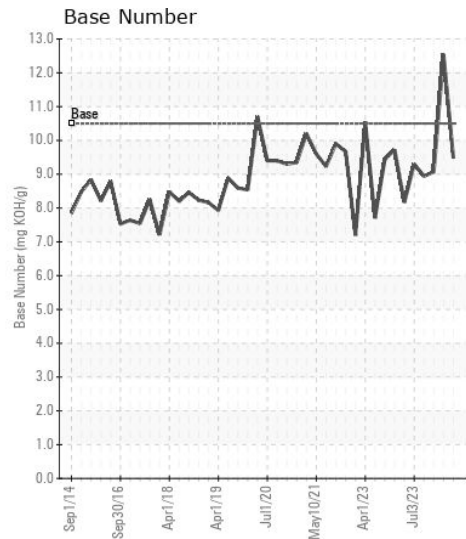
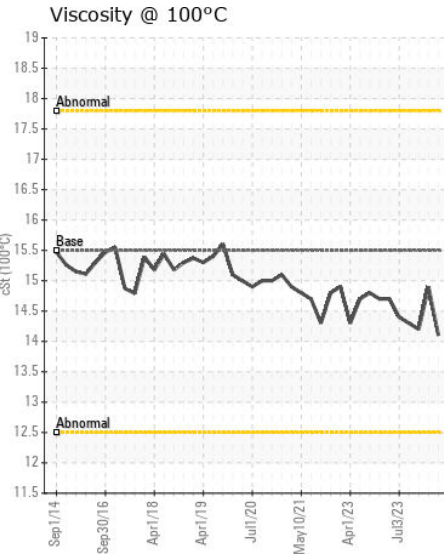
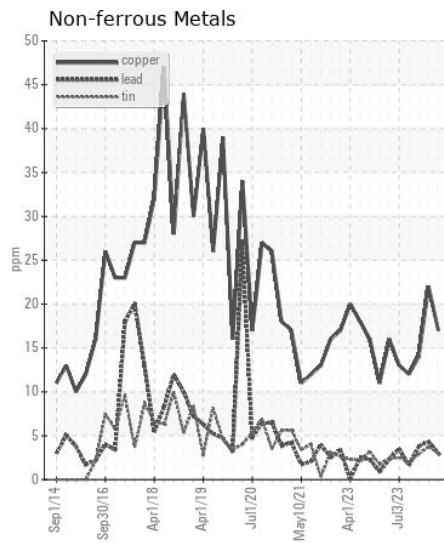
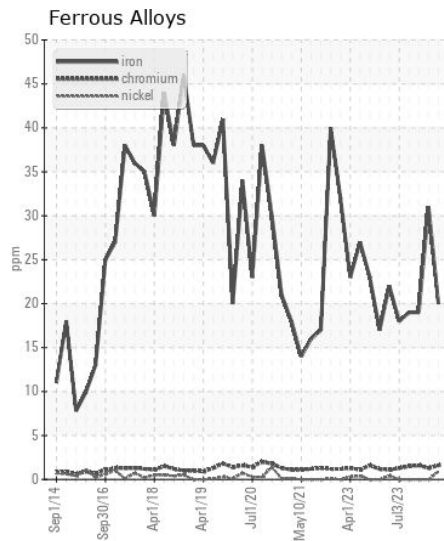
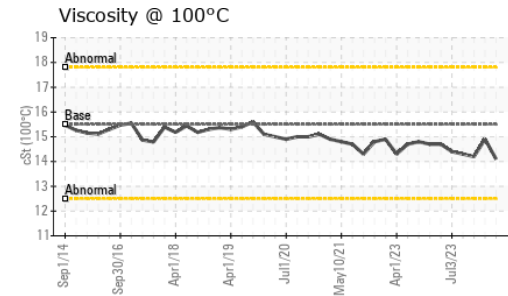
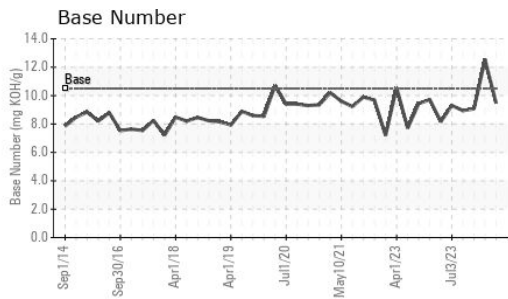
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>5</b>	5	5
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>1.1</b>	1.5	1
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.7</b>	9.6	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.2</b>	19.3	18.3
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>2</b>	4	6
Boron	ppm	ASTM D5185m		<b>56</b>	▲ 60	66
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>51</b>	57	59
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>57</b>	88	98
Calcium	ppm	ASTM D5185m		<b>3297</b>	3272	3218
Phosphorus	ppm	ASTM D5185m		<b>71</b>	83	105
Zinc	ppm	ASTM D5185m		<b>51</b>	▲ 91	122
Sulfur	ppm	ASTM D5185m		<b>2413</b>	2432	2506
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>9.2</b>	10.1	10.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	<b>9.48</b>	▲ 12.54	9.07
Visc @ 100°C	cSt	ASTM D445	15.5	<b>14.1</b>	14.9	14.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0064504 **Received** : 08 Jan 2024  
**Lab Number** : 06055039 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10820988 **Diagnostician** : Sean Felton  
**Test Package** : MAR 2 ( Additional Tests: PrtCount )

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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