



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

Area  
**GALE C**  
Machine Id  
**[GALE C] 003 550006-3**  
Component  
**Starboard Main Engine**  
Fluid  
**CHEVRON DELO 710 LE (225 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0063260</b>	MW0058717	MW0058599
Sample Date		Client Info		<b>01 Dec 2023</b>	01 Nov 2023	01 Oct 2023
Machine Age	hrs	Client Info		<b>10375</b>	9634	9002
Oil Age	hrs	Client Info		<b>10375</b>	0	9002
Filter Age	hrs	Client Info		<b>324</b>	0	0
Oil Changed		Client Info		<b>Not Chngd</b>	N/A	N/A
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	<b>9</b>	8	6
Chromium	ppm	ASTM D5185m	>8	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>15	<b>1</b>	2	2
Lead	ppm	ASTM D5185m	>18	<b>3</b>	4	4
Copper	ppm	ASTM D5185m	>80	<b>8</b>	7	7
Tin	ppm	ASTM D5185m	>14	<b>3</b>	3	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**

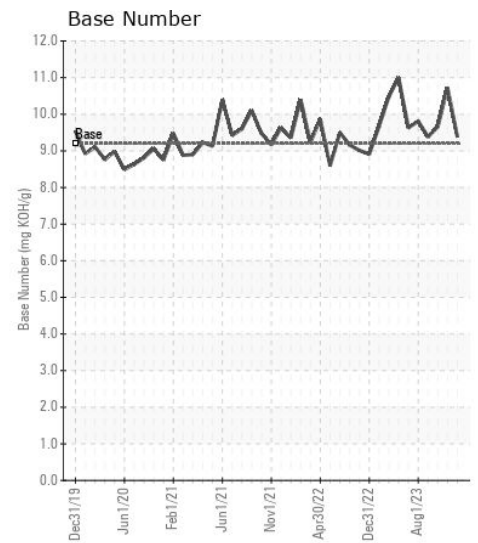
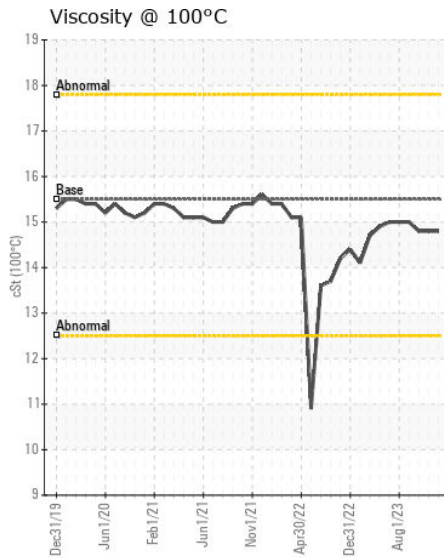
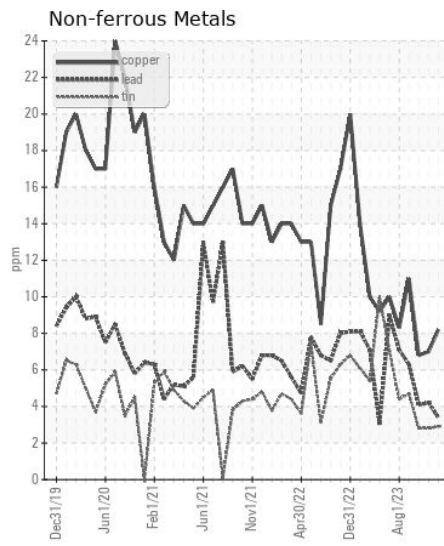
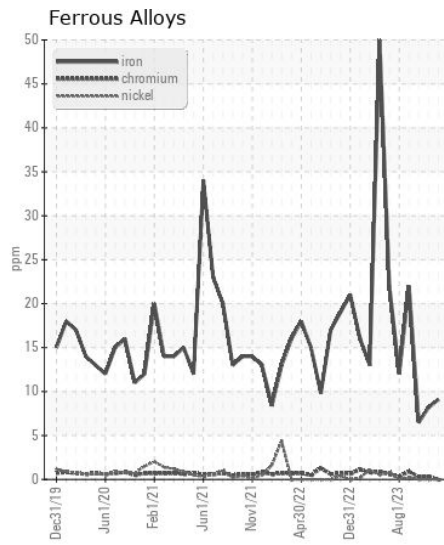
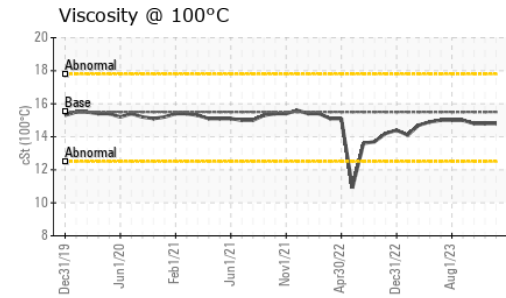
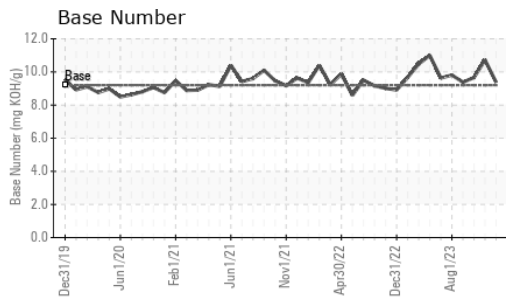
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>4</b>	4	4
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	0
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>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.1</b>	7.6	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>15.9</b>	15.8	15.1
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>9</b>	9	4
Boron	ppm	ASTM D5185m		<b>35</b>	44	37
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>41</b>	42	43
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>13</b>	15	15
Calcium	ppm	ASTM D5185m		<b>3191</b>	3361	3442
Phosphorus	ppm	ASTM D5185m		<b>6</b>	1	4
Zinc	ppm	ASTM D5185m	10	<b>0</b>	4	0
Sulfur	ppm	ASTM D5185m		<b>2171</b>	2295	2223
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>8.9</b>	8.3	7.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.2	<b>9.38</b>	10.72	9.66
Visc @ 100°C	cSt	ASTM D445	15.5	<b>14.8</b>	14.8	14.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0063260 **Received** : 08 Jan 2024  
**Lab Number** : 06054121 **Diagnosed** : 09 Jan 2024  
**Unique Number** : 10820070 **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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