



Area  
**ERNA E HONEYCUTT**  
Machine Id  
[ERNA E HONEYCUTT] 008 641346-8  
Component  
Starboard Genset  
Fluid  
CHEVRON DELO 400 LE 15W40 (--- GAL)

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0063227</b>	MW0068315	MW0063217
Sample Date		Client Info		<b>31 Mar 2024</b>	29 Feb 2024	23 Jan 2024
Machine Age	hrs	Client Info		<b>5169</b>	4816	4447
Oil Age	hrs	Client Info		<b>381</b>	361	353
Filter Age	hrs	Client Info		<b>0</b>	361	353
Oil Changed		Client Info		<b>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>ATTENTION</b>	ABNORMAL	ATTENTION

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>4</b>	5	7
Chromium	ppm	ASTM D5185m	>4	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>12	<b>4</b>	3	3
Lead	ppm	ASTM D5185m	>17	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>70	<b>0</b>	1	4
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

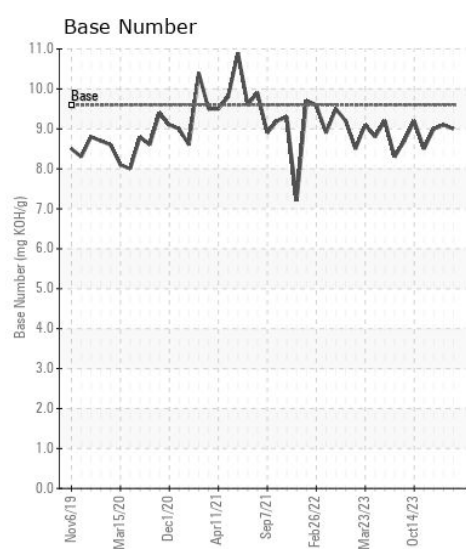
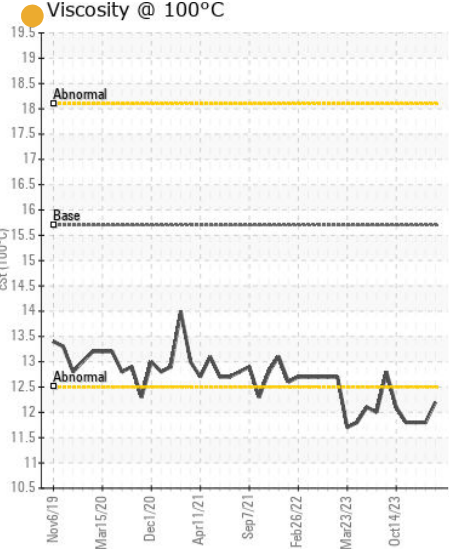
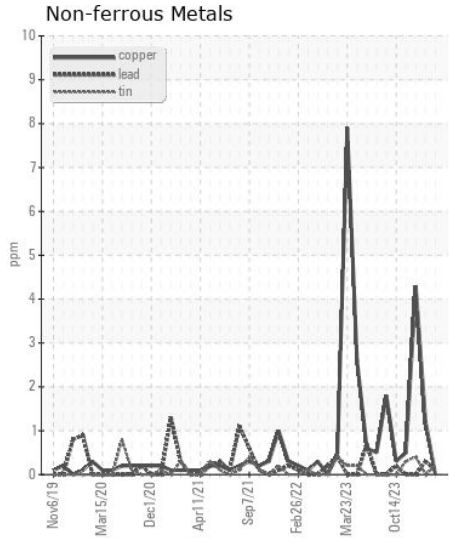
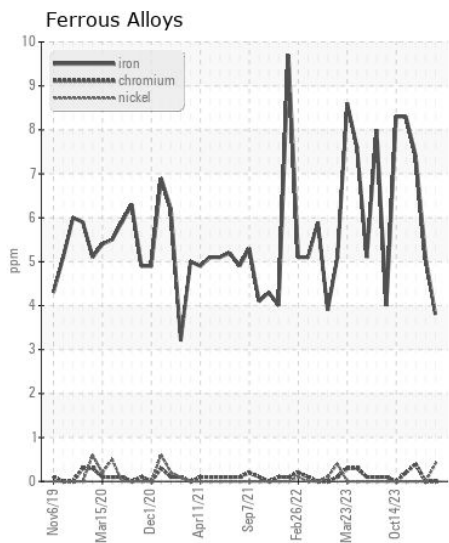
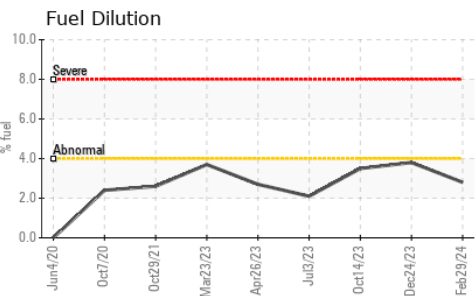
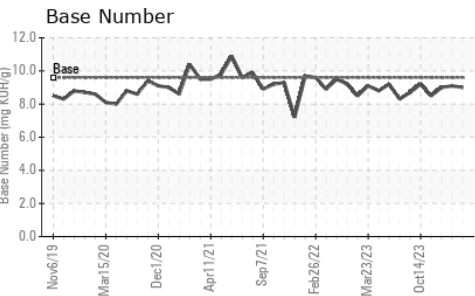
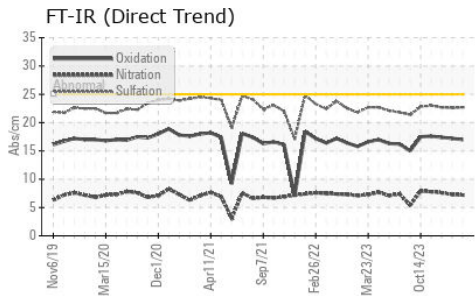
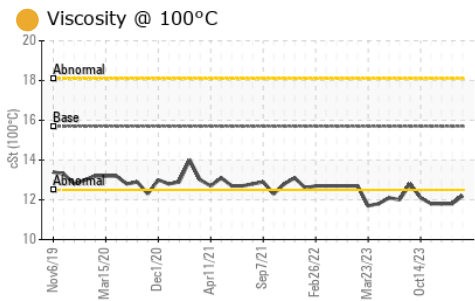
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>5</b>	6	8
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0	3
Fuel	%	ASTM D3524	>4.0	<b>&lt;1.0</b>	▲ 2.8	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.2</b>	7.3	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.7</b>	22.6	22.7
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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		<b>1</b>	<1	0
Boron	ppm	ASTM D5185m		<b>339</b>	319	344
Barium	ppm	ASTM D5185m		<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m		<b>121</b>	118	138
Manganese	ppm	ASTM D5185m		<b>1</b>	2	2
Magnesium	ppm	ASTM D5185m		<b>680</b>	643	633
Calcium	ppm	ASTM D5185m		<b>1579</b>	1464	1614
Phosphorus	ppm	ASTM D5185m	1200	<b>729</b>	677	628
Zinc	ppm	ASTM D5185m	1300	<b>885</b>	789	834
Sulfur	ppm	ASTM D5185m	3200	<b>3079</b>	2734	2565
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.0</b>	17.2	17.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.6	<b>9.0</b>	9.1	9.0
Visc @ 100°C	cSt	ASTM D445	15.7	● <b>12.2</b>	▲ 11.8	● 11.8



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0063227 **Received** : 11 Apr 2024  
**Lab Number** : 06146348 **Tested** : 15 Apr 2024  
**Unique Number** : 10976426 **Diagnosed** : 15 Apr 2024 - Jonathan Hester  
**Test Package** : MAR 2 ( Additional Tests: FuelDilution )

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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)