



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

Machine Id  
**MIKE NADICKSBERND (S/N 7-374441)**  
Component  
**Starboard Reduction Gear**  
Fluid  
**CHEVRON GEAR COMPOUND EP 220 (210 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0069169</b>	MW0057682	MW0057393
Sample Date		Client Info		<b>22 Jun 2024</b>	31 May 2024	05 Mar 2024
Machine Age	hrs	Client Info		<b>42174</b>	41833	39770
Oil Age	hrs	Client Info		<b>42174</b>	41833	39770
Filter Age	hrs	Client Info		<b>0</b>	41833	0
Oil Changed		Client Info		<b>N/A</b>	Not Changd	N/A
Filter Changed		Client Info		<b>None</b>	Not Changd	None
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	<b>114</b>	120	104
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	1	2
Lead	ppm	ASTM D5185m	>100	<b>1</b>	1	<1
Copper	ppm	ASTM D5185m	>50	<b>5</b>	4	4
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

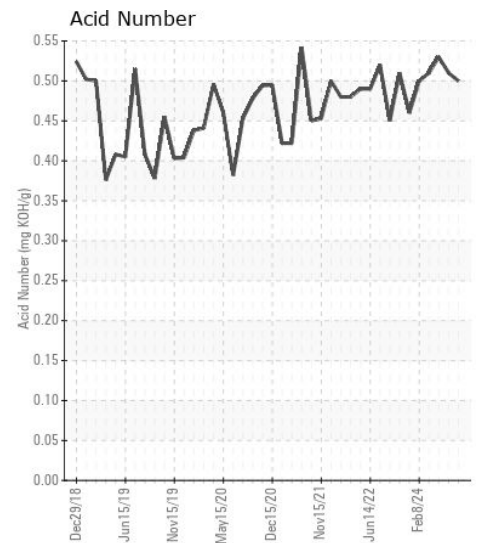
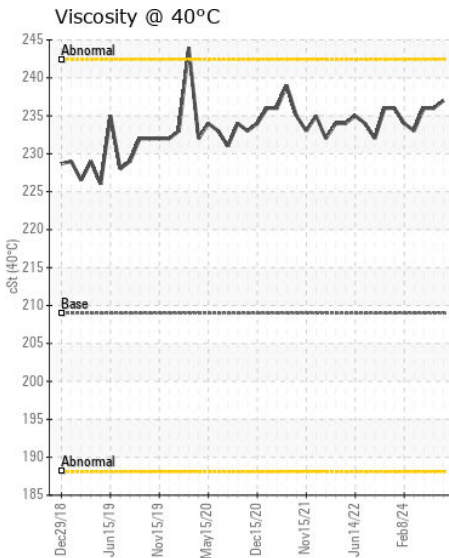
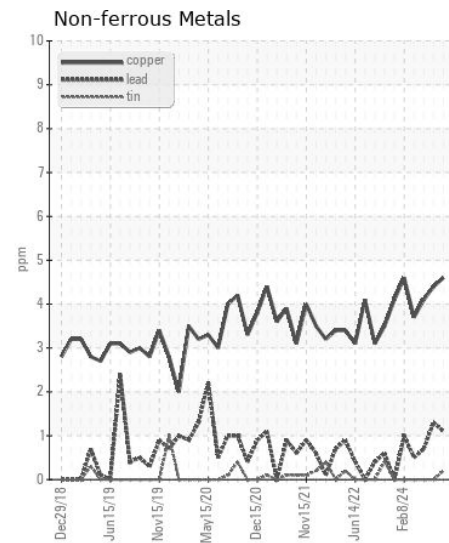
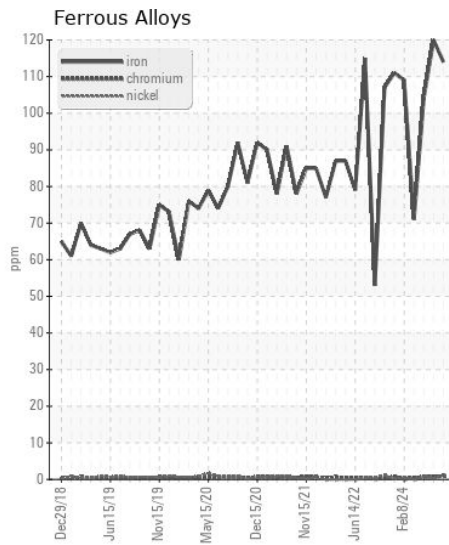
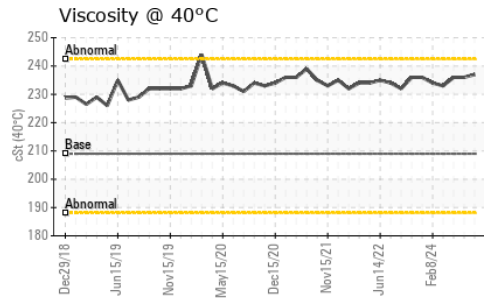
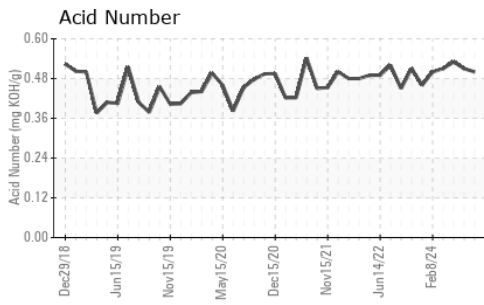
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>4</b>	3	3
Potassium	ppm	ASTM D5185m	>20	<b>8</b>	7	6
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>8</b>	10	8
Boron	ppm	ASTM D5185m		<b>2</b>	<1	3
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>7</b>	7	7
Manganese	ppm	ASTM D5185m		<b>1</b>	1	1
Magnesium	ppm	ASTM D5185m		<b>2</b>	0	1
Calcium	ppm	ASTM D5185m		<b>22</b>	31	36
Phosphorus	ppm	ASTM D5185m		<b>197</b>	219	210
Zinc	ppm	ASTM D5185m		<b>2</b>	0	4
Sulfur	ppm	ASTM D5185m		<b>3820</b>	4912	4383
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.50</b>	0.51	0.53
Visc @ 40°C	cSt	ASTM D445	209	<b>237</b>	236	236



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0069169  
**Lab Number** : 06230311  
**Unique Number** : 11113804  
**Test Package** : MAR 2

**Received** : 08 Jul 2024  
**Tested** : 09 Jul 2024  
**Diagnosed** : 10 Jul 2024 - Don Baldrige

**AMERICAN COMMERCIAL LINES**  
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 Contact: RONALD SCHNEIDER  
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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)

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