



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

Area  
**JAMES E ANDERSON**  
Machine Id  
[**JAMES E ANDERSON**] 006 502590-6  
Component  
Starboard Reduction Gear  
Fluid  
CHEVRON MEROPA 320 (--- GAL)

**RECOMMENDATION**

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

**WEAR**

Gear wear is indicated.

**CONTAMINATION**

There is no indication of any contamination in the oil.

**FLUID CONDITION**

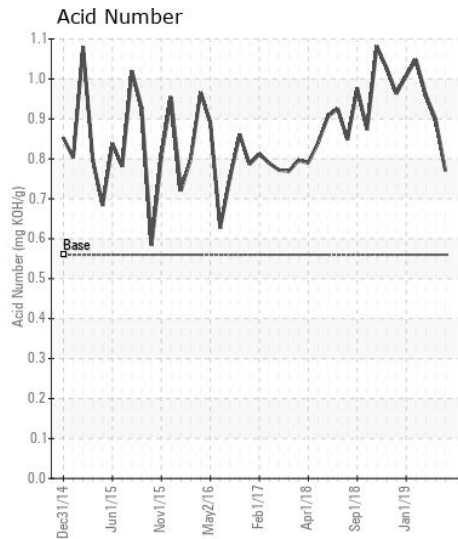
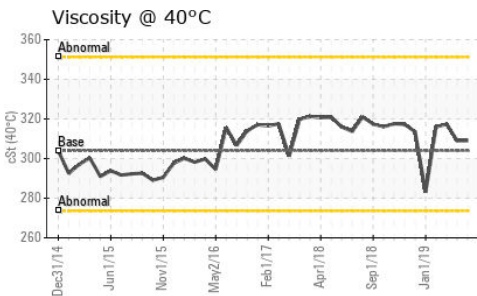
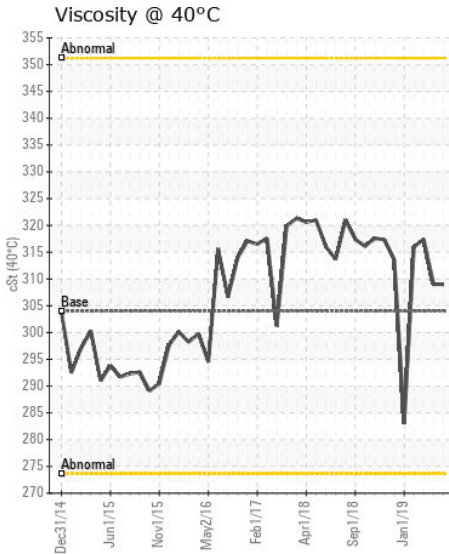
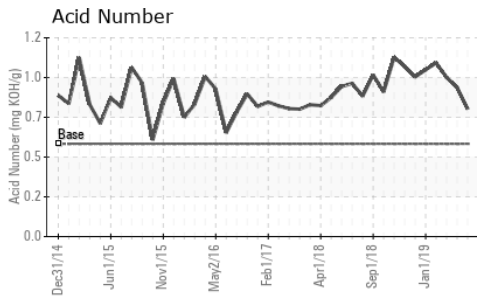
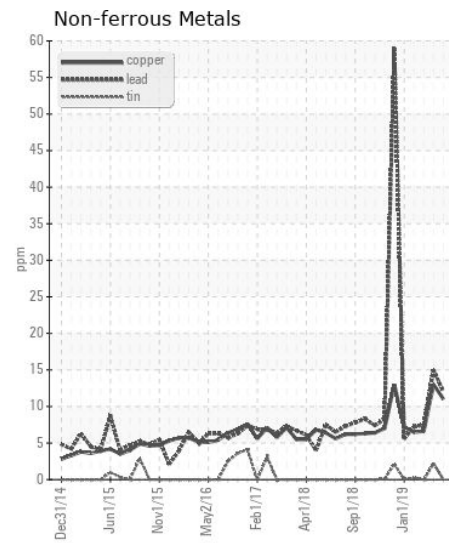
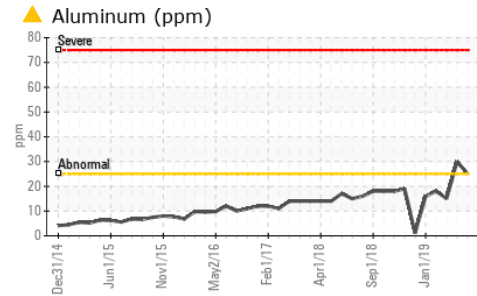
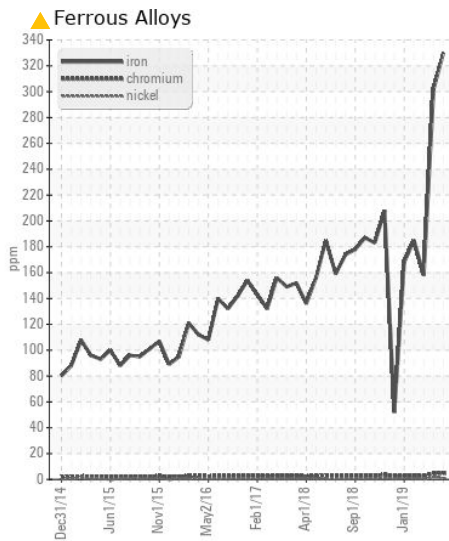
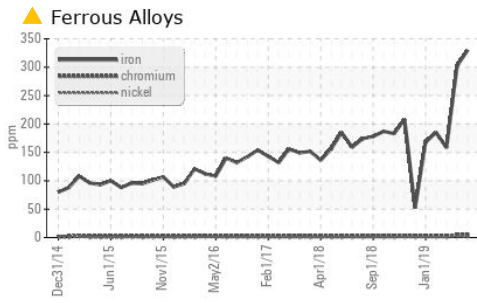
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0073588</b>	MWM690516	MWM690562
Sample Date		Client Info		<b>30 Jun 2024</b>	01 Jul 2023	01 Mar 2019
Machine Age	hrs	Client Info		<b>65231</b>	64268	62553
Oil Age	hrs	Client Info		<b>0</b>	64268	62553
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

Iron	ppm	ASTM D5185m	>150	<b>▲ 330</b>	▲ 302	▲ 158
Chromium	ppm	ASTM D5185m	>10	<b>5</b>	5	3
Nickel	ppm	ASTM D5185m	>10	<b>1</b>	2	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>▲ 25</b>	▲ 30	▲ 15
Lead	ppm	ASTM D5185m	>100	<b>12</b>	15	8
Copper	ppm	ASTM D5185m	>50	<b>11</b>	13	7
Tin	ppm	ASTM D5185m	>10	<b>0</b>	2	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>MODER</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

Silicon	ppm	ASTM D5185m	>50	<b>14</b>	14	6
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	9	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	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

Sodium	ppm	ASTM D5185m		<b>9</b>	10	7
Boron	ppm	ASTM D5185m	20	<b>8</b>	7	5
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>3</b>	5	2
Magnesium	ppm	ASTM D5185m		<b>3</b>	0	0
Calcium	ppm	ASTM D5185m	25	<b>0</b>	<1	0
Phosphorus	ppm	ASTM D5185m	235	<b>271</b>	284	183
Zinc	ppm	ASTM D5185m		<b>28</b>	10	12
Sulfur	ppm	ASTM D5185m		<b>13024</b>	17618	9580
Acid Number (AN)	mg KOH/g	ASTM D8045	0.56	<b>0.77</b>	0.90	0.961
Visc @ 40°C	cSt	ASTM D445	304	<b>309</b>	309	317.4



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0073588  
**Lab Number** : 06237041  
**Unique Number** : 11125875  
**Test Package** : MAR 2  
**Received** : 15 Jul 2024  
**Tested** : 17 Jul 2024  
**Diagnosed** : 17 Jul 2024 - Sean Felton

**INGRAM BARGE**  
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Certificate L2367  
 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)