



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

Area

**ROBIN B INGRAM**

Machine Id

[ROBIN B INGRAM] 006 617985-6

Component

Starboard Reduction Gear

Fluid

CHEVRON MEROPA 320 (--- GAL)

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW06221840</b>	MW06192946	MW06159843
Sample Date		Client Info		<b>01 Jun 2024</b>	28 May 2024	01 Apr 2024
Machine Age	hrs	Client Info		<b>66182</b>	65757	64749
Oil Age	hrs	Client Info		<b>66182</b>	65757	0
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>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	<b>58</b>	56	58
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	1
Silver	ppm	ASTM D5185m		<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>25	<b>5</b>	5	5
Lead	ppm	ASTM D5185m	>100	<b>&lt;1</b>	<1	2
Copper	ppm	ASTM D5185m	>50	<b>4</b>	6	7
Tin	ppm	ASTM D5185m	>10	<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**

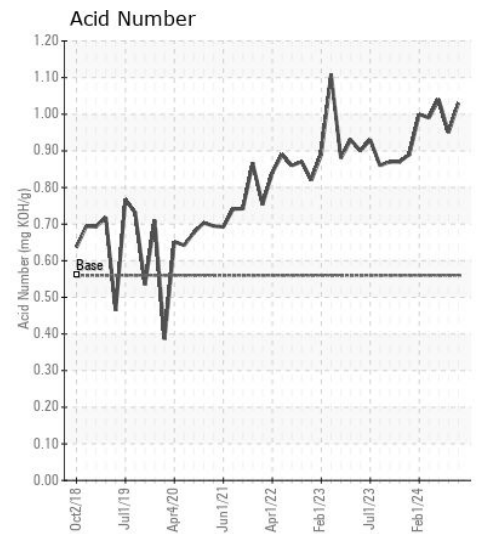
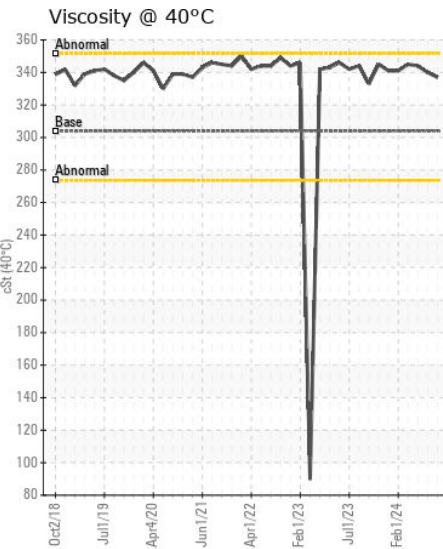
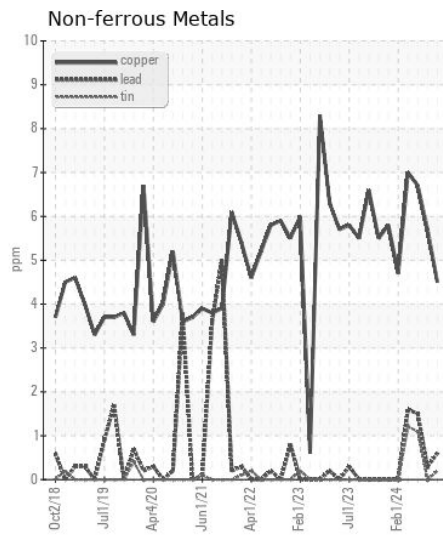
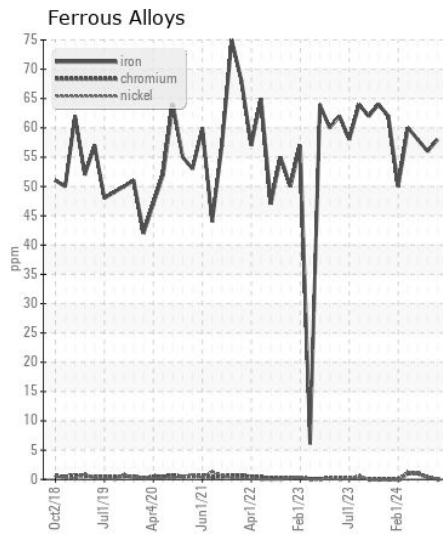
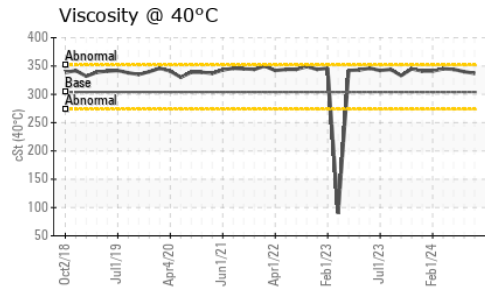
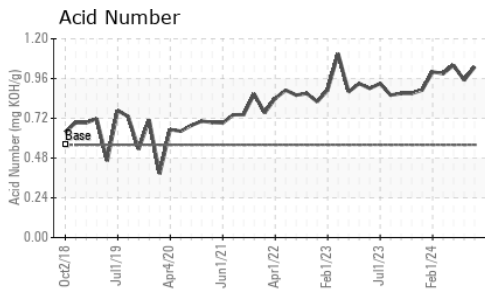
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>10</b>	14	12
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	3	4
Water	%	ASTM D6304	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
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>9</b>	9	11
Boron	ppm	ASTM D5185m	20	<b>9</b>	7	7
Barium	ppm	ASTM D5185m		<b>32</b>	30	40
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	1	2
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	2
Magnesium	ppm	ASTM D5185m		<b>0</b>	2	4
Calcium	ppm	ASTM D5185m	25	<b>41</b>	50	46
Phosphorus	ppm	ASTM D5185m	235	<b>251</b>	208	253
Zinc	ppm	ASTM D5185m		<b>32</b>	16	16
Sulfur	ppm	ASTM D5185m		<b>9031</b>	6509	8404
Acid Number (AN)	mg KOH/g	ASTM D8045	0.56	<b>1.03</b>	0.95	1.04
Visc @ 40°C	cSt	ASTM D445	304	<b>337</b>	340	344



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW06221840 **Received** : 26 Jun 2024  
**Lab Number** : 06221840 **Tested** : 01 Jul 2024  
**Unique Number** : 11100037 **Diagnosed** : 01 Jul 2024 - Jonathan Hester  
**Test Package** : MAR 2 ( Additional Tests: KF, PrtCount )

**INGRAM BARGE**  
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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)