



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW06159843	MW06159842	MW0053729
Sample Date		Client Info		01 Apr 2024	29 Feb 2024	01 Feb 2024
Machine Age	hrs	Client Info		64749	63976	63411
Oil Age	hrs	Client Info		0	0	63411
Filter Age	hrs	Client Info		0	0	400
Oil Changed		Client Info		N/A	N/A	Not Changd
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	58	60	50
Chromium	ppm	ASTM D5185m	>10	1	1	0
Nickel	ppm	ASTM D5185m	>10	1	1	0
Titanium	ppm	ASTM D5185m		1	1	0
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m	>25	5	5	4
Lead	ppm	ASTM D5185m	>100	2	2	0
Copper	ppm	ASTM D5185m	>50	7	7	5
Tin	ppm	ASTM D5185m	>10	1	1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

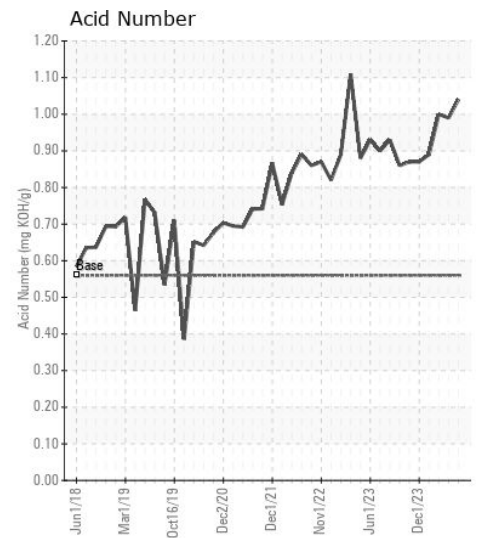
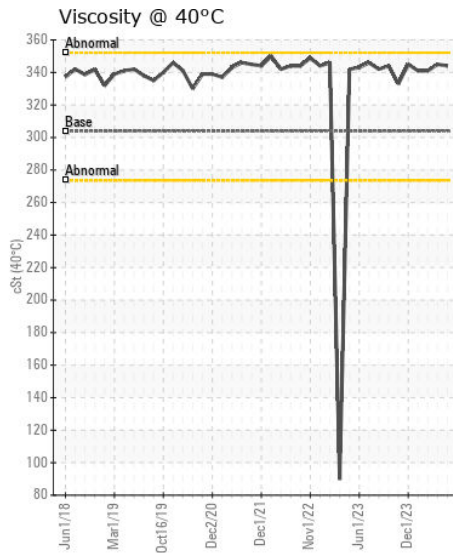
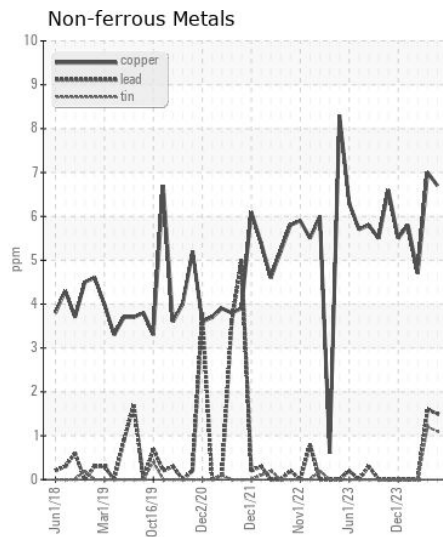
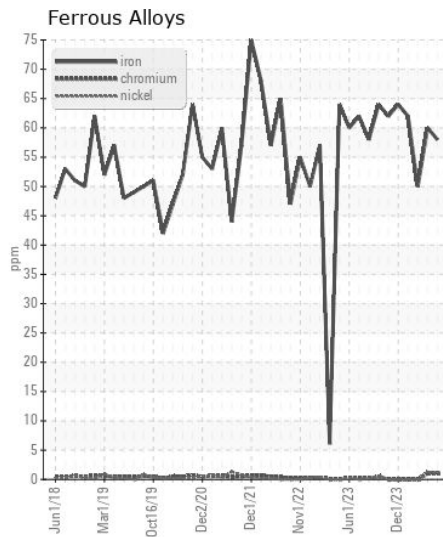
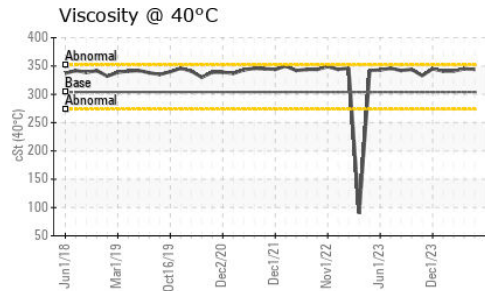
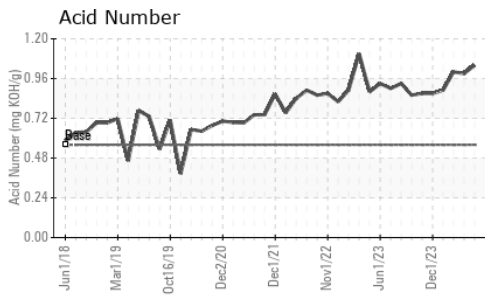
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	12	12	8
Potassium	ppm	ASTM D5185m	>20	4	4	2
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	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		11	11	10
Boron	ppm	ASTM D5185m	20	7	7	4
Barium	ppm	ASTM D5185m		40	39	38
Molybdenum	ppm	ASTM D5185m	0	2	3	0
Manganese	ppm	ASTM D5185m		2	2	0
Magnesium	ppm	ASTM D5185m		4	4	0
Calcium	ppm	ASTM D5185m	25	46	48	36
Phosphorus	ppm	ASTM D5185m	235	253	243	243
Zinc	ppm	ASTM D5185m		16	15	6
Sulfur	ppm	ASTM D5185m		8404	7795	8435
Acid Number (AN)	mg KOH/g	ASTM D8045	0.56	1.04	0.99	1.00
Visc @ 40°C	cSt	ASTM D445	304	344	345	341



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : MW06159843

Lab Number : 06159843

Unique Number : 10995266

Test Package : MAR 2

Received : 24 Apr 2024

Tested : 25 Apr 2024

Diagnosed : 25 Apr 2024 - Wes Davis

INGRAM BARGE

900 S 3RD ST

PADUCAH, KY

US 42003

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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)