



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
JAMES L HAMILTON
Machine Id
[**JAMES L HAMILTON**] 006 572403-6
Component
Starboard Reduction Gear
Fluid
CHEVRON MEROPA 320 (215 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW06146661	MW0064630	MW0064652
Sample Date		Client Info		01 Apr 2024	01 Mar 2024	04 Feb 2024
Machine Age	hrs	Client Info		61644	60951	60362
Oil Age	hrs	Client Info		61644	0	60362
Filter Age	hrs	Client Info		0	0	60362
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	None
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	54	46	45
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	1	<1	<1
Titanium	ppm	ASTM D5185m		2	1	1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>25	8	7	7
Lead	ppm	ASTM D5185m	>100	2	2	1
Copper	ppm	ASTM D5185m	>50	8	6	6
Tin	ppm	ASTM D5185m	>10	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

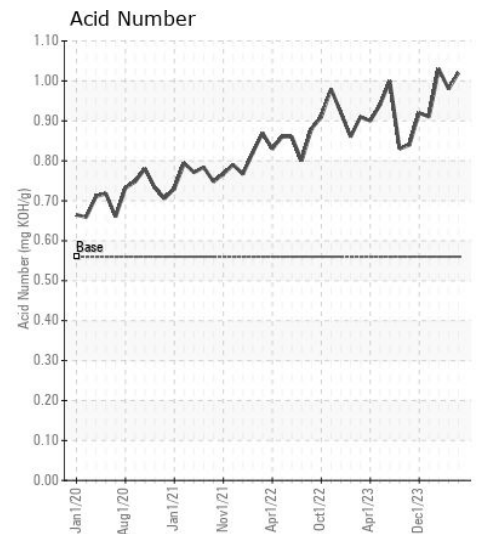
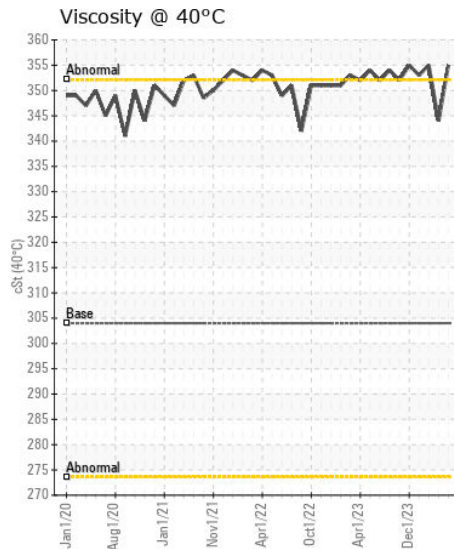
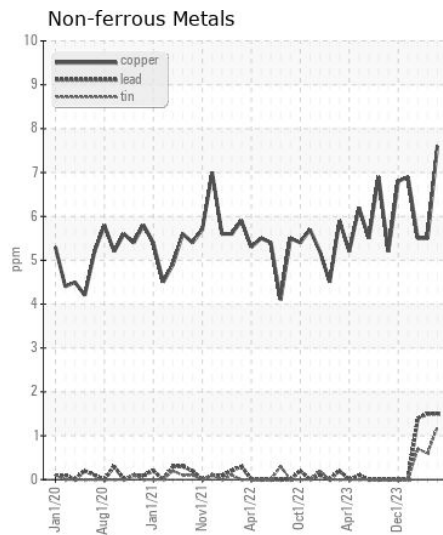
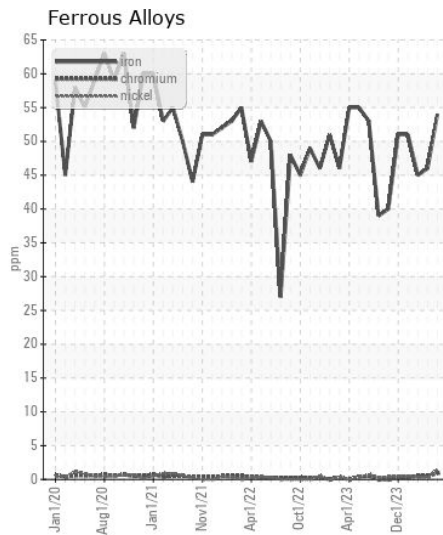
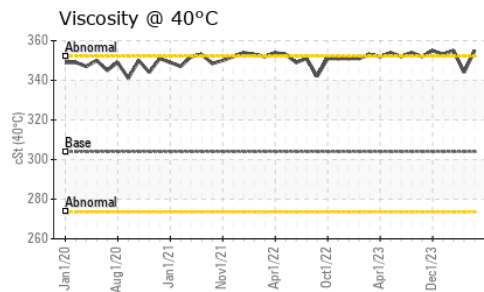
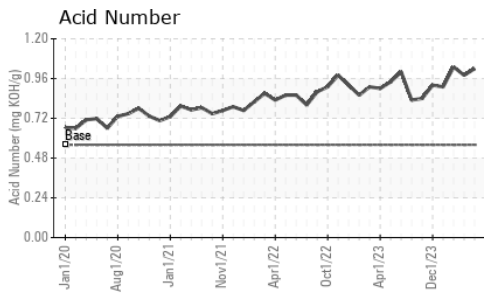
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	4	3	3
Potassium	ppm	ASTM D5185m	>20	3	3	3
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
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		4	6	6
Boron	ppm	ASTM D5185m	20	3	4	3
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m	0	4	3	3
Manganese	ppm	ASTM D5185m		2	1	1
Magnesium	ppm	ASTM D5185m		2	2	0
Calcium	ppm	ASTM D5185m	25	33	27	25
Phosphorus	ppm	ASTM D5185m	235	240	223	223
Zinc	ppm	ASTM D5185m		4	0	0
Sulfur	ppm	ASTM D5185m		6781	6895	6952
Acid Number (AN)	mg KOH/g	ASTM D8045	0.56	1.02	0.98	1.03
Visc @ 40°C	cSt	ASTM D445	304	355	344	355



Certificate L2367

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

Sample No. : MW06146661

Lab Number : 06146661

Unique Number : 10976739

Test Package : MAR 2

Received : 11 Apr 2024

Tested : 12 Apr 2024

Diagnosed : 15 Apr 2024 - Sean Felton

INGRAM BARGE

900 S 3RD ST

PADUCAH, KY

US 42003

Contact: ANTHONY VAN CURA

anthony.vancura@ingrambarga.com

T: (270)415-4467

F: (615)695-3697

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)