



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
JOHN M DONNELLY
Machine Id
[**JOHN M DONNELLY**] 006 621298-6
Component
Starboard Reduction Gear
Fluid
CHEVRON MEROPA 320 (150 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0061225	MW0061216	MW0017911
Sample Date		Client Info		01 Apr 2024	21 Mar 2024	02 Sep 2023
Machine Age	hrs	Client Info		0	0	64163
Oil Age	hrs	Client Info		10100	9839	64163
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	35	34	28
Chromium	ppm	ASTM D5185m	>10	<1	<1	0
Nickel	ppm	ASTM D5185m	>10	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	12	11	5
Lead	ppm	ASTM D5185m	>100	<1	<1	<1
Copper	ppm	ASTM D5185m	>50	5	5	4
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

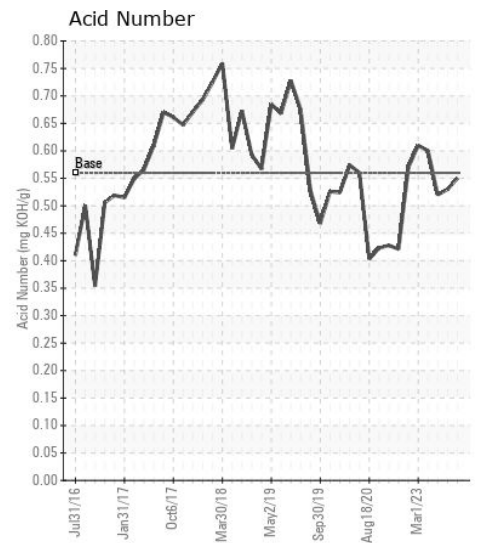
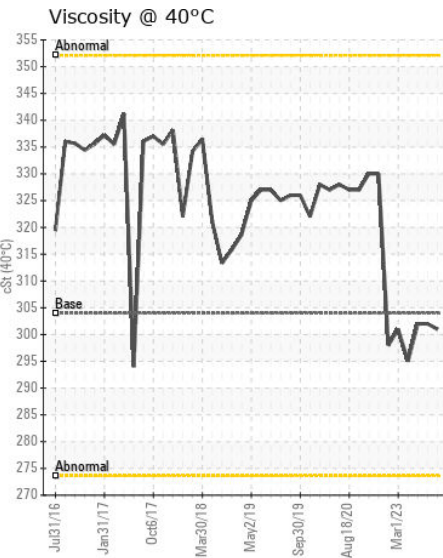
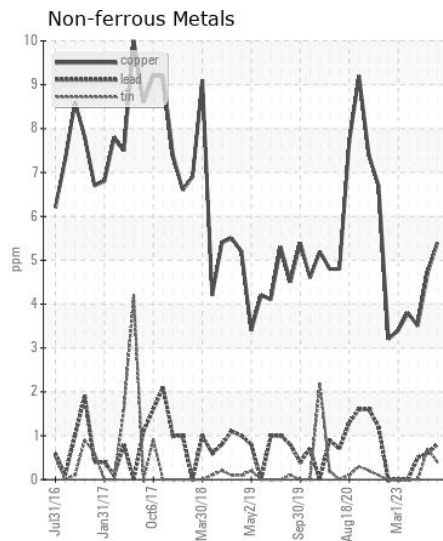
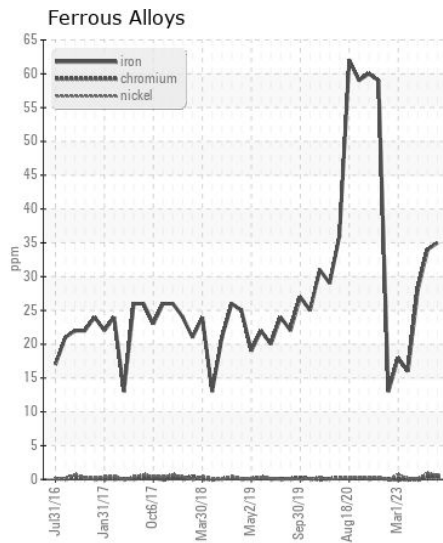
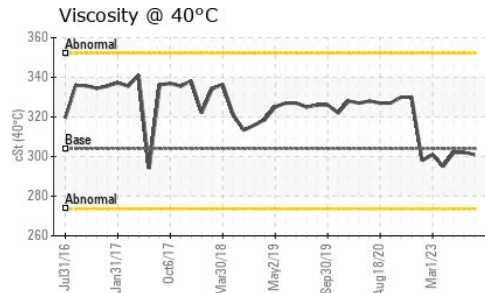
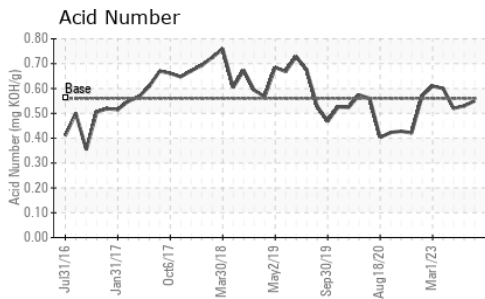
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	7	6	4
Potassium	ppm	ASTM D5185m	>20	2	2	4
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		9	10	8
Boron	ppm	ASTM D5185m	20	4	2	4
Barium	ppm	ASTM D5185m		0	0	4
Molybdenum	ppm	ASTM D5185m	0	19	15	5
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		1	2	<1
Calcium	ppm	ASTM D5185m	25	35	29	34
Phosphorus	ppm	ASTM D5185m	235	322	252	295
Zinc	ppm	ASTM D5185m		6	4	20
Sulfur	ppm	ASTM D5185m		6432	5198	5433
Acid Number (AN)	mg KOH/g	ASTM D8045	0.56	0.55	0.53	0.52
Visc @ 40°C	cSt	ASTM D445	304	301	302	302



Certificate L2367

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

Sample No. : MW0061225

Lab Number : 06148128

Unique Number : 10978206

Test Package : MAR 2

Received : 12 Apr 2024

Tested : 15 Apr 2024

Diagnosed : 15 Apr 2024 - Wes Davis

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)