



Area

MICHEAL J GRAINGER

Machine Id

006

Component

Starboard Reduction Gear

Fluid

CHEVRON MEROPA 320 (75 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

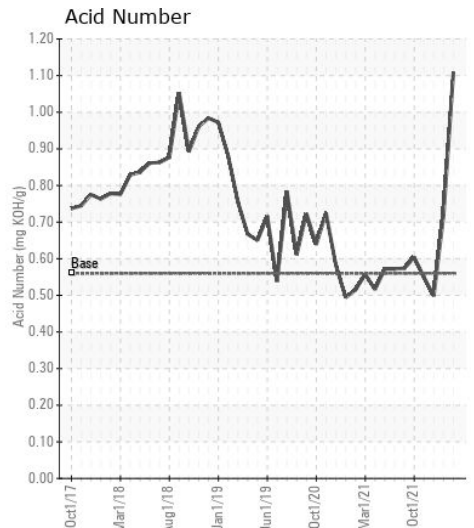
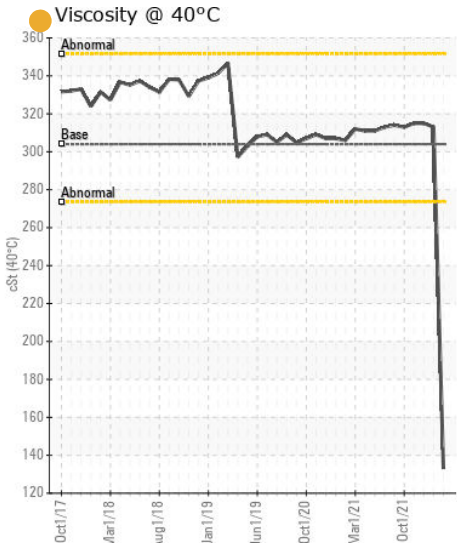
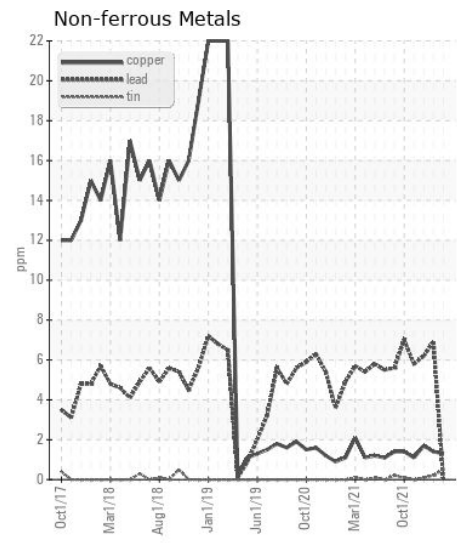
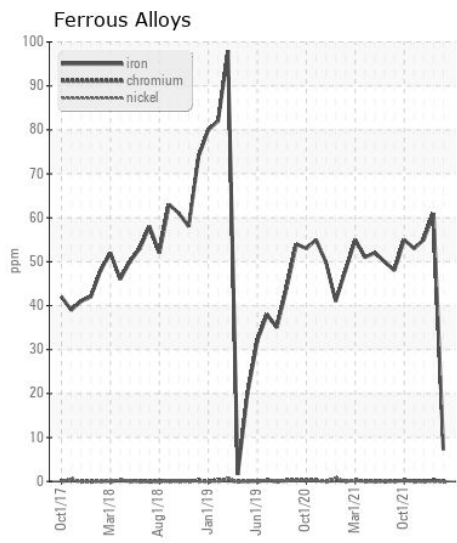
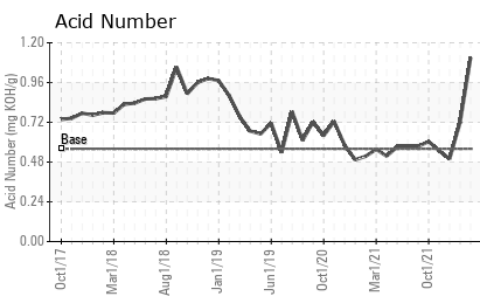
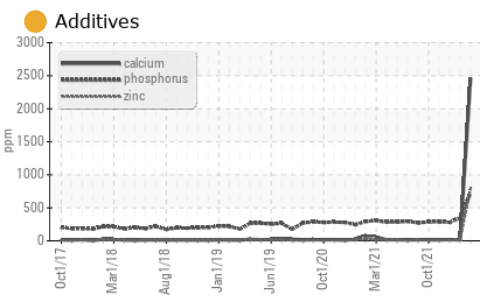
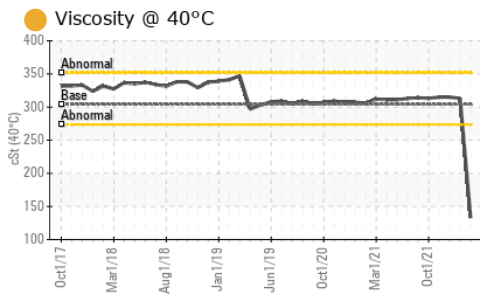
The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0068352	MW0005794	MW0017870
Sample Date		Client Info		01 Jul 2024	01 Feb 2022	01 Dec 2021
Machine Age	hrs	Client Info		78486	0	0
Oil Age	hrs	Client Info		3606	12110	11669
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				ATTENTION	NORMAL	NORMAL

Iron	ppm	ASTM D5185m	>150	7	61	55
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	1	1	1
Lead	ppm	ASTM D5185m	>100	0	7	6
Copper	ppm	ASTM D5185m	>50	1	1	2
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>50	6	2	<1
Potassium	ppm	ASTM D5185m	>20	1	0	0
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

Sodium	ppm	ASTM D5185m		1	0	2
Boron	ppm	ASTM D5185m	20	286	13	12
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	0	30	<1	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		15	<1	0
Calcium	ppm	ASTM D5185m	25	2460	14	17
Phosphorus	ppm	ASTM D5185m	235	726	344	280
Zinc	ppm	ASTM D5185m		794	10	8
Sulfur	ppm	ASTM D5185m		3437	5075	5032
Acid Number (AN)	mg KOH/g	ASTM D8045	0.56	1.11	0.72	0.499
Visc @ 40°C	cSt	ASTM D445	304	133	313	315



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0068352 **Received** : 11 Jul 2024
Lab Number : 06233984 **Tested** : 12 Jul 2024
Unique Number : 11122818 **Diagnosed** : 13 Jul 2024 - Don Baldridge
Test Package : MAR 2

INGRAM SOLD VESSELS
 UNUSED COMPONENTS
 US
 Contact:

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)