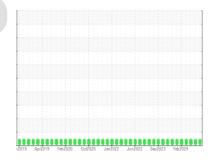


# **OIL ANALYSIS REPORT**

# WILLIAM P MORELLI [WILLIAM P MORELLI] 006 520785-6

Starboard Reduction Gear

**CHEVRON MEROPA 320 (214 GAL)** 



Sample Rating Trend



### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

### **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		MW0020440	MW0059938	MW0020438
Sample Date		Client Info		01 Jun 2024	01 May 2024	01 Apr 2024
Machine Age	hrs	Client Info		96789	96031	95322
Oil Age	hrs	Client Info		10852	0	9375
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	41	45	43
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	3	3
Lead	ppm	ASTM D5185m	>100	18	19	19
Copper	ppm	ASTM D5185m	>50	4	3	4
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	20	8	8	9
Barium	ppm	ASTM D5185m		<1	<1	1
Molybdenum	ppm	ASTM D5185m	0	<1	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		2	0	<1
Calcium	ppm	ASTM D5185m	25	27	27	26
Phosphorus	ppm	ASTM D5185m	235	322	339	346
Zinc	ppm	ASTM D5185m		9	6	7
Sulfur	ppm	ASTM D5185m		9378	9920	10069
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	1	2	2
Sodium	ppm	ASTM D5185m		7	8	8
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
		10T11 Dog :-	0 = 0			

Acid Number (AN)

mg KOH/g ASTM D8045 0.56

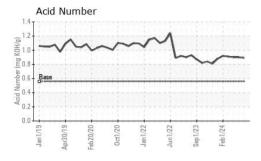
0.90

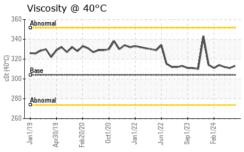
0.89

0.90



## **OIL ANALYSIS REPORT**





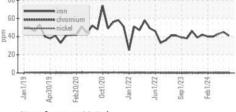
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

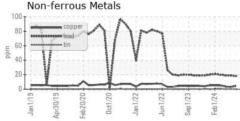
FLUID PROPER	TIES	method				history2
Visc @ 40°C	cSt	ASTM D445	304	313	311	312

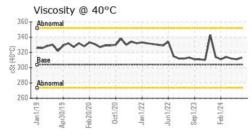
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

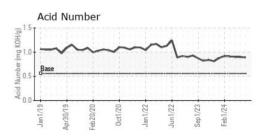
### **GRAPHS**















Laboratory Sample No.

Lab Number : 06207162

: MW0020440 Unique Number : 11074623

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Jun 2024

**Tested** : 13 Jun 2024 Diagnosed : 13 Jun 2024 - Wes Davis

US 42003 Contact: ANTHONY VAN CURA anthony.vancura@ingrambarge.com

**INGRAM BARGE** 

900 S 3RD ST

PADUCAH, KY

Test Package : MAR 2 Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

T: (270)415-4467

\* - 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)

F: (615)695-3697 Contact/Location: ANTHONY VAN CURA - INGPAD