WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

PATRICIA I HART

[PATRICIA I HART] 006 590874-6

Starboard Reduction Gear

CHEVRON MEROPA 220 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. NOTE: Please	Sample Number		Client Info		MW0068157	MW0063085	MW06001102
provide information regarding reservoir capacity, filter type and micron rating with next sample.	Sample Date		Client Info		28 May 2024	01 Mar 2024	01 Nov 2023
	Machine Age	hrs	Client Info		114748	113072	110419
	Oil Age	hrs	Client Info		28767	27091	24416
	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	Iron	ppm	ASTM D5185m	>150	85	98	82
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>10	2	1	1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	1	3	<1
	Lead	ppm	ASTM D5185m	>100	0	<1	<1
	Copper	ppm	ASTM D5185m	>50	35	45	40
	Tin	ppm	ASTM D5185m	>10	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	1	2	2
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3	1	<1
	Water	PP	WC Method		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	Sodium	ppm	ASTM D5185m		4	1	4
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m	40	16	27	17
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		<1	2	0
	Manganese	ppm	ASTM D5185m		2	1	1
	Magnesium	ppm	ASTM D5185m		2	2	<1
	Calcium	ppm	ASTM D5185m		74	124	42
	Phosphorus	ppm	ASTM D5185m	270	232	240	212
	Zinc	ppm	ASTM D5185m		13	31	19
	Sulfur	ppm	ASTM D5185m	8600	8783	7388	7699
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.64	0.73	0.71	0.74

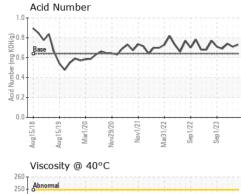
Visc @ 40°C

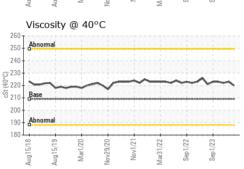
223

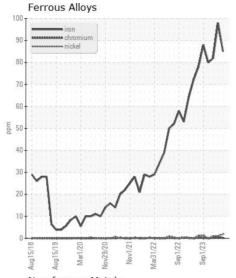
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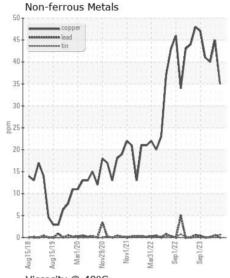
ASTM D445 209

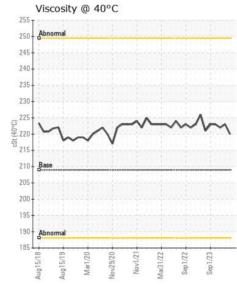
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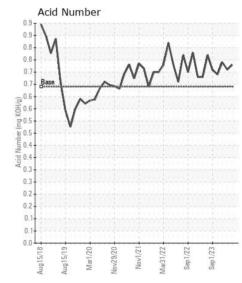














Certificate L2367

Laboratory Sample No.

: MW0068157 Lab Number : 06212524 Unique Number: 11085388 Test Package : MAR 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jun 2024 **Tested** : 19 Jun 2024

Diagnosed : 19 Jun 2024 - Wes Davis **INGRAM BARGE** 900 S 3RD ST PADUCAH, KY US 42003

Contact: JEFF BISHOP

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. jeff.bishop@ingrambarge.com T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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