

# **OIL ANALYSIS REPORT**

Sample Rating Trend

**NORMAL** 



# GROVE 10061373 (S/N 41006058)

**Main Hoist** 

SHELL OMALA S4 GX 220 (1 GAL)

### 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.

		Nov201	9 Dec2020	Nov2021 N	ov2022	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0626718	WC0495728	WC0495725
Sample Date		Client Info		20 Nov 2022	29 Nov 2021	10 Dec 2020
Machine Age	yrs	Client Info		0	0	0
Oil Age	yrs	Client Info		1	3	0
Oil Changed		Client Info		Not Changd	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	4	12	9
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>20	0	2	<1
Lead	ppm	ASTM D5185m	>20	0	<1	0
Copper	ppm	ASTM D5185m	>20	0	1	<1
Tin	ppm	ASTM D5185m	>20	0	0	0
Antimony	ppm	ASTM D5185m			0	0
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		29	42	46
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		<1	0	0
Calcium	ppm	ASTM D5185m		0	2	0
Phosphorus	ppm	ASTM D5185m		429	592	525
Zinc	ppm	ASTM D5185m		6	6	23
Sulfur	ppm	ASTM D5185m		8682	8928	7460
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	5	6	5
Sodium	ppm	ASTM D5185m	>10	0	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	5
FLUID DEGRADA		method	limit/base		history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	mmbasc	0.98	1.011	1.131
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	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	LIGHT	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	>0.05	NEG	NEG	NEG
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scalar \*Visual

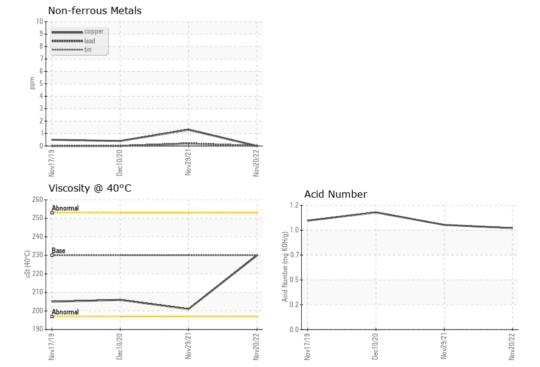
Serwice: Manager - FILE SCHNY

NEG



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Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : IND 2

: WC0626718 : 05715188 : 10254764

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

: 12 Dec 2022 : 14 Dec 2022 Diagnostician : Jonathan Hester **FLUOR MARINE PROPULSION LLC** 

2401 RIVER RD SCHENECTADY, NY US 12309

Contact: Service Manager

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)

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