

### **OIL ANALYSIS REPORT**

#### Sample Rating Trend



# GROVE 10061373 (S/N 41006058)

**Auxiliary Hoist** 

#### SHELL OMALA S4 GX 220 (1 GAL)

#### DIAGNOSIS

#### 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.

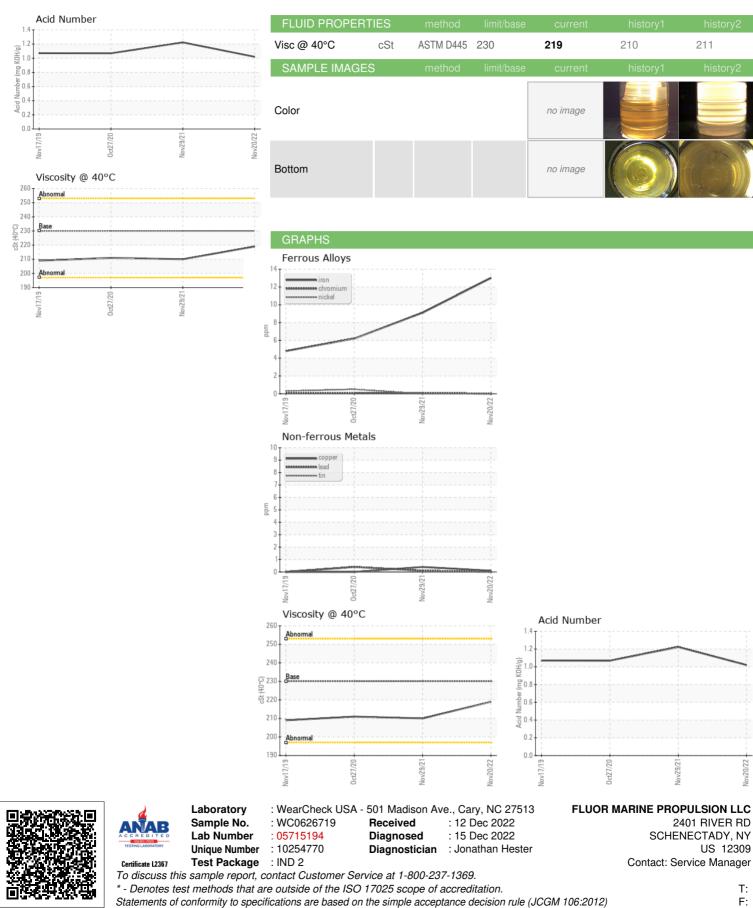
#### Fluid Condition

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

		N0V2U1	9 0012020	N092021 N	V2021 N6V2022		
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0626719	WC0495729	WC0456469	
Sample Date		Client Info		20 Nov 2022	29 Nov 2021	27 Oct 2020	
Machine Age	yrs	Client Info		0	0	0	
Oil Age	yrs	Client Info		1	2	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	13	9	6	
Chromium	ppm	ASTM D5185m	>20	0	<1	<1	
Nickel		ASTM D5185m	>20	0	0	<1	
Titanium	ppm	ASTM D5185m	>20	0	0	0	
Silver	ppm	ASTM D5185m		0	<1	0	
	ppm		. 00	0	2	<1	
Aluminum	ppm	ASTM D5185m		0		<1	
Lead	ppm	ASTM D5185m	>20	-	<1		
Copper	ppm	ASTM D5185m		<1	<1	0	
Tin	ppm	ASTM D5185m	>20	0	0	0	
Antimony	ppm	ASTM D5185m			<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		37	59	48	
Barium	ppm	ASTM D5185m		0	0	0	
Molybdenum	ppm	ASTM D5185m		0	0	<1	
Manganese	ppm	ASTM D5185m		<1	<1	<1	
Magnesium	ppm	ASTM D5185m		1	<1	0	
Calcium	ppm	ASTM D5185m		1	3	<1	
Phosphorus	ppm	ASTM D5185m		539	565	519	
Zinc	ppm	ASTM D5185m		11	<1	10	
Sulfur	ppm	ASTM D5185m		9137	8601	6596	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>15	7	6	4	
Sodium	ppm	ASTM D5185m		<1	<1	0	
Potassium	ppm	ASTM D5185m	>20	0	2	0	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		1.02	1.223	1.069	
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	LIGHT	LIGHT	
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	
Free Water	scalar	*Visual		NEG		er - RuelsCHN	
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