

OIL ANALYSIS REPORT

Area **CHEATHAM ANNEX 1724 CRANE 1A**

Gearbox Fluid SHELL OMALA S4 WE 220 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

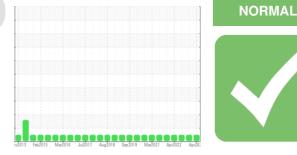
All component wear rates are normal.

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.

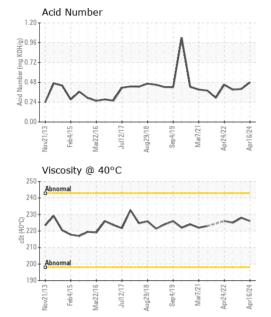


Sample Rating Trend

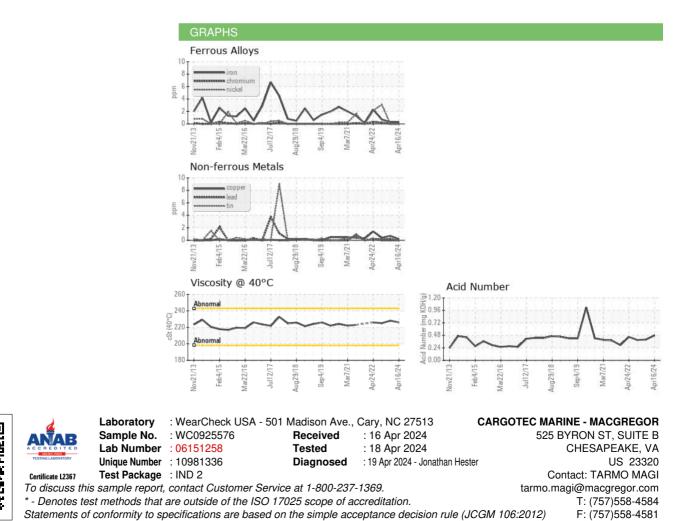
SAMPLE INFORMATION method WC0925576 WC0752687 WC0752665 Sample Number **Client Info** 16 Apr 2024 01 Oct 2023 22 Jan 2023 Sample Date Client Info 0 0 0 Machine Age hrs **Client Info** Oil Age hrs Client Info 0 0 0 Oil Changed **Client Info** N/A N/A N/A NORMAL NORMAL Sample Status NORMAL CONTAMINATION Water WC Method >0.2 NEG NEG NEG WEAR METALS ppm ASTM D5185m >200 ء1 <1 <1 Iron 0 Chromium ASTM D5185m >15 0 <1 ppm Nickel 0 0 3 ppm ASTM D5185m >15 Titanium ASTM D5185m 0 0 0 ppm 0 0 Silver ASTM D5185m <1 ppm Aluminum ppm ASTM D5185m >25 0 5 <1 Lead ASTM D5185m >100 0 0 0 ppm Copper >200 <1 <1 ppm ASTM D5185m <1 Tin ASTM D5185m >25 0 <1 ppm <1 Vanadium 0 ppm ASTM D5185m <1 <1 0 0 Cadmium 0 ppm ASTM D5185m ASTM D5185m 0 0 0 Boron ppm 0 Barium ppm ASTM D5185m 0 <1 Molvbdenum ppm ASTM D5185m 0 0 0 Manganese ASTM D5185m 0 0 ppm <1 0 4 Magnesium ASTM D5185m <1 ppm 0 Calcium ASTM D5185m 1 ppm <1 Phosphorus ASTM D5185m 480 507 374 ppm 0 0 2 Zinc ppm ASTM D5185m Sulfur ASTM D5185m 58 59 37 ppm 7 4 Silicon ppm ASTM D5185m >50 4 Sodium ASTM D5185m 0 0 3 ppm Potassium ASTM D5185m >20 0 4 <1 ppm FLUID DEGRADATION Acid Number (AN) mg KOH/g ASTM D8045 0.48 0.40 0.39



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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
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		226	228	225
SAMPLE IMAGES	8	method	limit/base	current	history1	history2
Color						
Bottom				•		



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Submitted By: TARMO MAGI