

OIL ANALYSIS REPORT

CHEATHAM ANNEX 1720 CRANE 2B (S/N 231349935) Component

Gearbox

Fluid

SHELL OMALA S4 WE 220 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

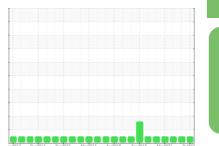
All component wear rates are normal.

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

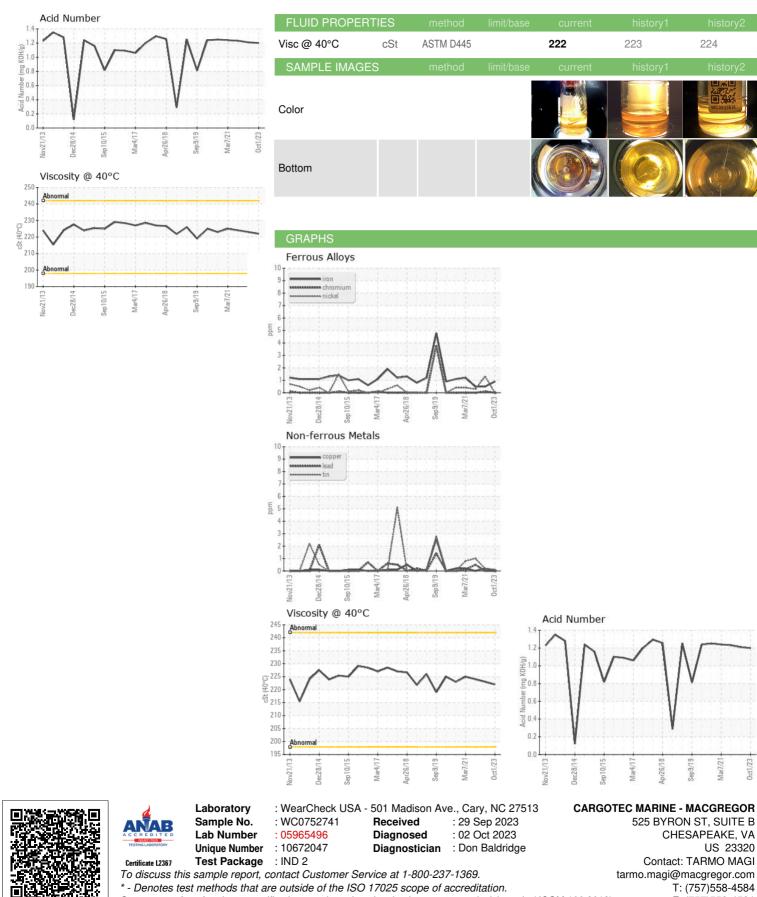


NORMAL

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0752741	WC0513638	WC0513626	
Sample Date		Client Info		01 Oct 2023	24 Apr 2022	09 May 2021	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>200	<1	<1	<1	
Chromium	ppm	ASTM D5185m	>15	0	<1	0	
Nickel	ppm	ASTM D5185m	>15	0	1	<1	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m		0	0	0	
Aluminum	ppm	ASTM D5185m	>25	5	1	0	
Lead	ppm	ASTM D5185m	>100	0	0	<1	
Copper	ppm	ASTM D5185m	>200	0	<1	0	
Tin	ppm	ASTM D5185m	>25	<1	<1	1	
Antimony	ppm	ASTM D5185m	>5			0	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		0	7	8	
Barium	ppm	ASTM D5185m		0	0	0	
Molybdenum	ppm	ASTM D5185m		0	0	0	
Manganese	ppm	ASTM D5185m		0	0	0	
Magnesium	ppm	ASTM D5185m		4	0	<1	
Calcium	ppm	ASTM D5185m		<1	4	<1	
Phosphorus	ppm	ASTM D5185m		556	527	534	
Zinc	ppm	ASTM D5185m		0	0	0	
Sulfur	ppm	ASTM D5185m		432	336	347	
CONTAMINANTS	3	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>50	4	4	<1	
Sodium	ppm	ASTM D5185m		0	<1	0	
Potassium	ppm	ASTM D5185m	>20	2	2	1	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		1.20	1.21	1.232	
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	VLITE	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	SNEEGITED BY: TARES MAGI		



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

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