

# **OIL ANALYSIS REPORT**

# CHEATHAM ANNEX 1723 CRANE 1B (S/N 62510225)

Component Gearbox

SHELL OMALA S4 WE 220 (--- GAL)

Sample Rating Trend



# 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

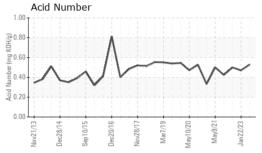
# Fluid Condition

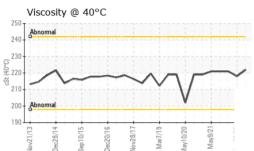
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		w2013 Dec20		ov2017 Mar2019 May2020 May20		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0752661	WC0752678	WC0513655
Sample Date		Client Info		01 Oct 2023	22 Jan 2023	24 Apr 2022
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	5	3	7
Chromium	ppm	ASTM D5185m	>15	0	<1	<1
Nickel	ppm	ASTM D5185m	>15	0	5	1
Titanium	ppm	ASTM D5185m	710	0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	8	1	6
Lead	ppm	ASTM D5185m	>100	0	0	<1
Copper	ppm	ASTM D5185m		0	0	<1
Tin	ppm	ASTM D5185m	>25	<1	<1	<1
Antimony	ppm	ASTM D5185m	>5	< I		
Vanadium		ASTM D5185m	20	0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	<1
	ppm	רוונסו גע ואוו טא		U		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	1
Barium	ppm	ASTM D5185m		0	1	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		4	<1	<1
Calcium	ppm	ASTM D5185m		3	4	6
Phosphorus	ppm	ASTM D5185m		941	698	880
Zinc	ppm	ASTM D5185m		0	3	0
Sulfur	ppm	ASTM D5185m		898	551	676
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	11	4	13
Sodium	ppm	ASTM D5185m		0	6	1
Potassium	ppm	ASTM D5185m	>20	4	1	3
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.53	0.47	0.50
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		*Visual		NEG	NEG	NEG
	scalar		>0.2			NEG TA <b>R</b> M© MAGI
Free Water	scalar	*Visual		NEG	эррения при	I AND WAGI



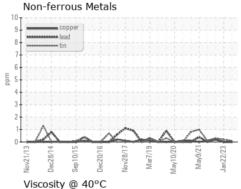
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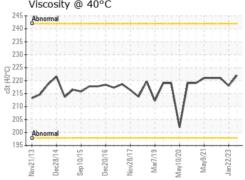


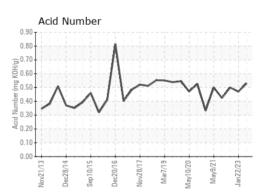


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		222	218	221
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

# Ferrous Alloys











Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: WC0752661 : 05965490 : 10672041 Test Package : IND 2

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 Sep 2023 : 02 Oct 2023 Diagnosed Diagnostician : Don Baldridge

**CARGOTEC MARINE - MACGREGOR** 525 BYRON ST, SUITE B

CHESAPEAKE, VA US 23320

Contact: TARMO MAGI tarmo.magi@macgregor.com

T: (757)558-4584 F: (757)558-4581

\* - 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)