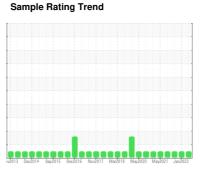


# **OIL ANALYSIS REPORT**

# CHEATHAM ANNEX 1726 CRANE 2A (S/N 62510226)

Component Gearbox

SHELL OMALA S4 WE 220 (--- 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

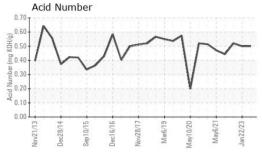
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

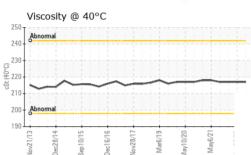
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0752733	WC0573872	WC0573792
Sample Date		Client Info		01 Oct 2023	22 Jan 2023	24 Apr 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status		3		NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	4	4	7
Chromium	ppm	ASTM D5185m	>15	0	<1	<1
Nickel	ppm	ASTM D5185m	>15	0	6	2
Titanium	ppm	ASTM D5185m	210	0	0	0
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>25	10	2	8
Lead		ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m		0	<1	<1
Tin	ppm	ASTM D5185m	>200	<1	<1	<1
	ppm			<1	<1	<1
Antimony	ppm	ASTM D5185m ASTM D5185m	>5			
Vanadium	ppm			0	<1	<1
Cadmium	ppm	ASTM D5185m		U	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	2
Barium	ppm	ASTM D5185m		0	1	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		5	<1	1
Calcium	ppm	ASTM D5185m		4	6	10
Phosphorus	ppm	ASTM D5185m		1006	842	1041
Zinc	ppm	ASTM D5185m		0	4	0
Sulfur	ppm	ASTM D5185m		848	616	677
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	14	6	19
Sodium	ppm	ASTM D5185m		0	7	2
Potassium	ppm	ASTM D5185m	>20	3	1	2
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.50	0.50	0.52
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	VLITE
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
Emailined Water	oodidi	*\ /' 1	~ U.L	NEC	Caltroitted D.	. TARMO MACI

NEG SNUE Gitted By: TARMO MAGI



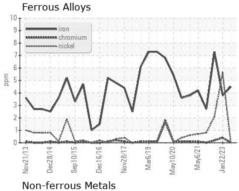
# **OIL ANALYSIS REPORT**

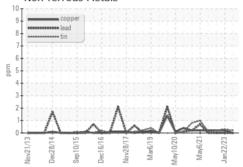


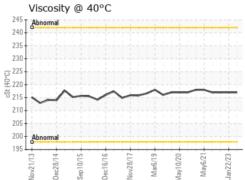


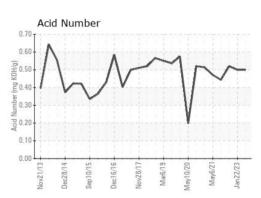


## **GRAPHS**













Certificate L2367

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

: WC0752733 : 05965504 : 10672055

: 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

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)