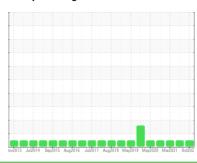


OIL ANALYSIS REPORT

CHEATHAM ANNEX **1722 CRANE 2A**

Component Gearbox

SHELL OMALA S4 WE 220 (--- GAL)



Sample Rating Trend



\Box	IΛ	\bigcirc	N I	$\overline{}$	0	10
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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	MOITAN	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0752654	WC0573790	WC0429720
Sample Date		Client Info		01 Oct 2023	24 Apr 2022	07 Mar 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	2	1
Chromium	ppm	ASTM D5185m		0	<1	<1
Nickel	ppm	ASTM D5185m	>15	0	1	<1
Titanium	ppm	ASTM D5185m	710	0	0	<1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum		ASTM D5185m	× 25	5	2	<1
Lead	ppm	ASTM D5185m	>25	0	<1	<1
	ppm	ASTM D5185m		0	<1	<1
Copper Tin	ppm	ASTM D5185m	>200	-	<1	<1
	ppm			<1		
Antimony	ppm	ASTM D5185m	>5			0
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	6	6
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		4	0	<1
Calcium	ppm	ASTM D5185m		2	5	4
Phosphorus	ppm	ASTM D5185m		759	726	759
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		617	532	570
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	4	5	3
Sodium	ppm	ASTM D5185m		0	1	0
Potassium	ppm	ASTM D5185m	>20	3	2	1
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.62	0.46	0.820
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

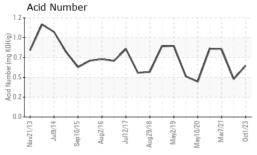
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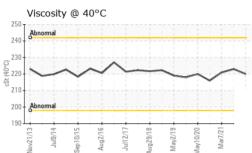
NEG

scalar *Visual

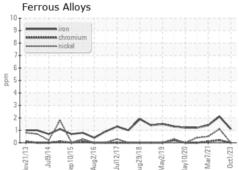


OIL ANALYSIS REPORT

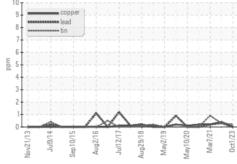


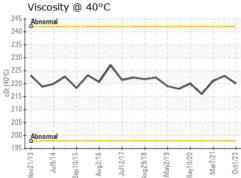


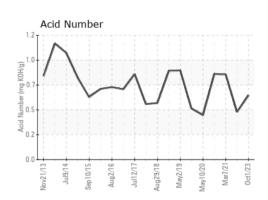
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		220	223	221
SAMPLE IMAG	iES	method	limit/base	current	history1	history2
Color				no image		
Bottom				no image		



Non-ferrous Metals











Certificate L2367

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

: WC0752654 : 05965507

: 10672058

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 Sep 2023

Diagnosed

: 02 Oct 2023

Diagnostician : Don Baldridge

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)

CARGOTEC MARINE - MACGREGOR

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US 23320 Contact: TARMO MAGI

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F: (757)558-4581