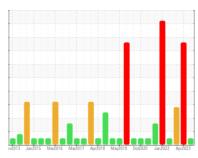


OIL ANALYSIS REPORT

CHEATHAM ANNEX 1BLL CRANE 1B (S/N 62510225)

Component Gearbox

MOBIL MOBILGEAR 600 XP 220 (5 LTR)



Sample Rating Trend



Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The water content is negligible. There is no indication of any contamination in the oil.

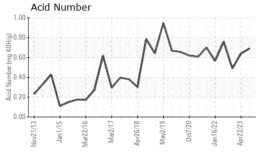
Fluid Condition

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

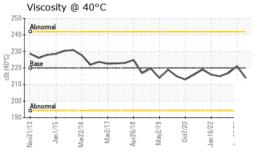
SAMPLE INFORM		m other al-	Iimit/base	or2018 May2019 Oct2020 Jan20		histow Q
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0752656	WC0752690	WC0752723
Sample Date		Client Info		01 Oct 2023	22 Apr 2023	22 Jan 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	SEVERE	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	5	28	16
Chromium	ppm	ASTM D5185m	>15	0	0	<1
Nickel	ppm	ASTM D5185m	>15	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>25	4	3	2
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	0	<1	<1
Tin	ppm	ASTM D5185m	>25	0	0	0
Vanadium	ppm	ASTM D5185m	-	0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2	8	9
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		4	21	<1
Calcium	ppm	ASTM D5185m		0	0	1
Phosphorus	ppm	ASTM D5185m		341	314	252
Zinc	ppm	ASTM D5185m		24	84	83
Sulfur	ppm	ASTM D5185m		15434	14548	10599
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	1	8	4
Sodium	ppm	ASTM D5185m		0	<1	<1
Potassium	ppm	ASTM D5185m	>20	0	0	<1
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.69	0.64	0.49
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	▲ MODER	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	▲ HAZY	▲ HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	0.2%	△ 0.2%
Free Water	scalar	*Visual		NEG	1.0	NEG
0.00.00\ David					0 1 11 10	T. D. 10 1110



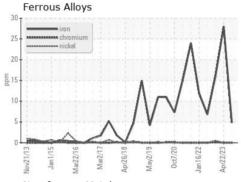
OIL ANALYSIS REPORT

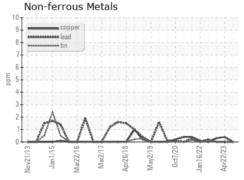


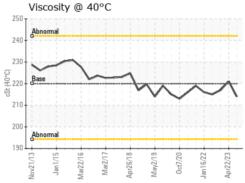


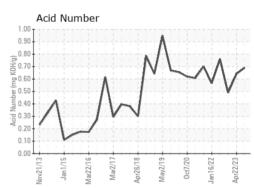


GRAPHS













Certificate L2367

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

: WC0752656 : 05965488 : 10672039

: 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

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)

Report Id: CARPORMAC [WUSCAR] 05965488 (Generated: 10/02/2023 18:02:03) Rev: 1

Submitted By: TARMO MAGI

F: (757)558-4581