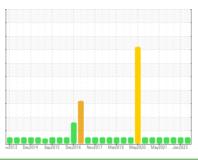


OIL ANALYSIS REPORT

CHEATHAM ANNEX 2B 2BLL CRANE 2B (S/N 62510227)

Component Gearbox

MOBIL MOBILGEAR 600 XP 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

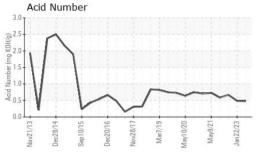
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

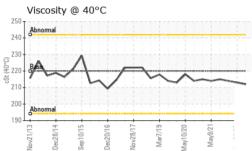
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0752694	WC0752730	WC0573808
Sample Date		Client Info		01 Oct 2023	22 Jan 2023	24 Apr 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed	1110	Client Info		N/A	N/A	N/A
Sample Status		Oliotic IIIIo		NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base			history2
				current	history1	•
Iron	ppm	ASTM D5185m	>200	2	2	1
Chromium	ppm	ASTM D5185m	>15	0	<1	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	4	0	1
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	0	<1	<1
Tin	ppm	ASTM D5185m	>25	0	0	0
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	2	16
Barium	ppm	ASTM D5185m		0	12	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		3	2	0
Calcium	ppm	ASTM D5185m		4	9	10
Phosphorus	ppm	ASTM D5185m		290	317	307
Zinc	ppm	ASTM D5185m		89	88	10
Sulfur	ppm	ASTM D5185m		17235	17678	13496
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<1	<1	2
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	0	0	2
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.48	0.49	0.67
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	LIGHT
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
Emulanieu Walei	Social	*\/:!	7 0.2	NEG	California D	TARMO MACI

NEG SNUE Gitted By: TARMO MAGI



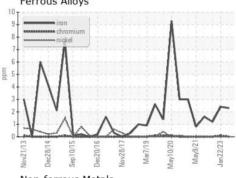
OIL ANALYSIS REPORT



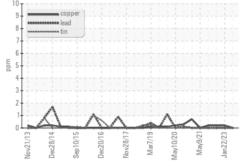


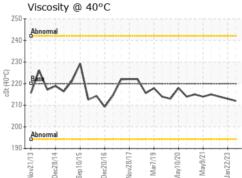
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	212	213	214
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						(0.6573.008
Bottom						

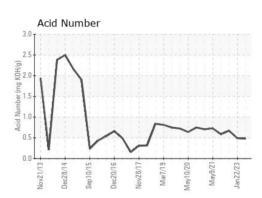
Ferrous Alloys



Non-ferrous Metals











Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10672053 Test Package : IND 2

: WC0752694 : 05965502

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

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)