

## **OIL ANALYSIS REPORT**

# Area CHEATHAM ANNEX 2B 2BTL CRANE 2B (S/N 62510227) Component Gearbox

Fluid MOBIL MOBILGEAR 600 XP 220 (--- GAL)

## DIAGNOSIS

#### Recommendation

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

## Contamination

Appearance is unacceptable Free water present. There is a moderate concentration of water present in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid.

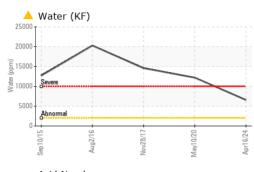
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0925636	WC0752695	WC0752731
Sample Date		Client Info		16 Apr 2024	01 Oct 2023	22 Jan 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	5	0	<1
Chromium	ppm	ASTM D5185m	>15	<1	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	4	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	0	<1
Tin	ppm	ASTM D5185m	>25	0	0	0
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		2	2	4
Barium	ppm	ASTM D5185m		0	0	12
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		<1	3	2
Calcium	ppm	ASTM D5185m		3	2	4
Phosphorus	ppm	ASTM D5185m		336	331	338
	ppm ppm	ASTM D5185m ASTM D5185m		336 23	331 14	338 51
Zinc						
Zinc	ppm ppm	ASTM D5185m	limit/base	23	14	51
Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m	limit/base	23 18115	14 17128	51 17105
Zinc Sulfur CONTAMINANTS Silicon	ppm ppm	ASTM D5185m ASTM D5185m method		23 18115 current	14 17128 history1	51 17105 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m		23 18115 current 2	14 17128 history1 0	51 17105 history2 <1
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	>50	23 18115 current 2 <1	14 17128 history1 0 <1	51 17105 history2 <1 <1
Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	>50 >20	23 18115 current 2 <1 1	14 17128 history1 0 <1 0	51 17105 history2 <1 <1 0
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	>50 >20 >0.2	23 18115 current 2 <1 1 0.657	14 17128 history1 0 <1 0 	51 17105 history2 <1 <1 0 
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water	ppm ppm ppm ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304	>50 >20 >0.2 >2000	23 18115 current 2 <1 1 ▲ 0.657 ▲ 6570	14 17128 history1 0 <1 0 	51 17105 history2 <1 <1 0 

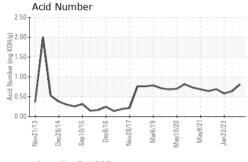
# WATER

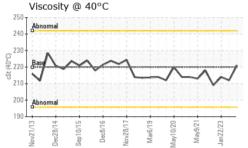
Sample Rating Trend



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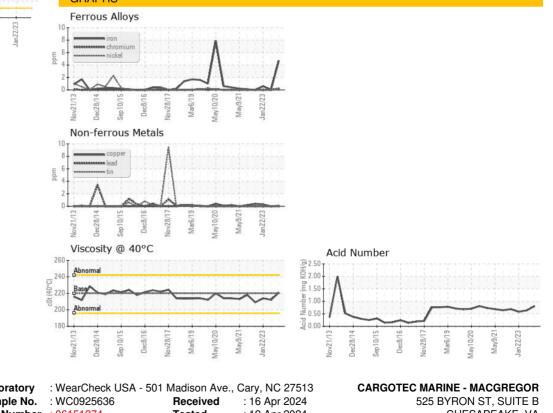


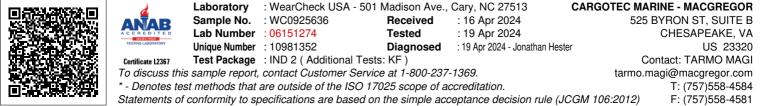
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	e MILKY	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG	NEG
Free Water	scalar	*Visual		<u> </u>	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	221	212	214
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color					. 8.	



Bottom







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Submitted By: TARMO MAGI

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