

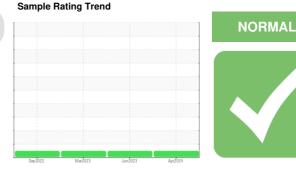
## **OIL ANALYSIS REPORT**

Area

# EAST CRANE 170831 (S/N MH-9161A)

1 Slewing Gearbox

GEAR OIL SAE 75W90 (--- GAL)



### DIAGNOSIS

#### Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

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	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PP	PP	PP
Sample Date		Client Info		18 Apr 2024	26 Jun 2023	27 Mar 2023
	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
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	0	0
Iron	ppm	ASTM D5185(m)	>50	21	23	16
Chromium	ppm	ASTM D5185(m)	>10	0	<1	0
Nickel	ppm	ASTM D5185(m)	>10	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)		0	<1	<1
Lead	ppm	ASTM D5185(m)	>15	0	0	<1
Copper	ppm	ASTM D5185(m)	>10	4	6	6
Tin	ppm	ASTM D5185(m)	>10	0	<1	<1
Antimony	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	400	273	311	310
Barium	ppm	ASTM D5185(m)	200	0	0	0
Molybdenum	ppm	ASTM D5185(m)	12	0	0	0
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)	12	11	87	92
Calcium	ppm	ASTM D5185(m)	150	1	3	2
Phosphorus	ppm	ASTM D5185(m)	1650	1319	1464	1549
Zinc	ppm	ASTM D5185(m)	125	5	4	4
Sulfur	ppm	ASTM D5185(m)	22500	22032	22647	23937
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	0	<1	3
	ppm	ASTM D5185(m)		<1	<1	<1
	ppm	ASTM D5185(m)	>20	<1	0	0
FLUID DEGRADAT	ΓΙΟΝ	method	limit/base	current	history1	history2
A	1/011/	4 OT1 4 DO7 4*				

2.07

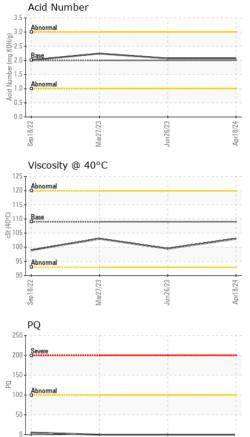
Acid Number (AN) mg KOH/g ASTM D974\* 2.00

2.07

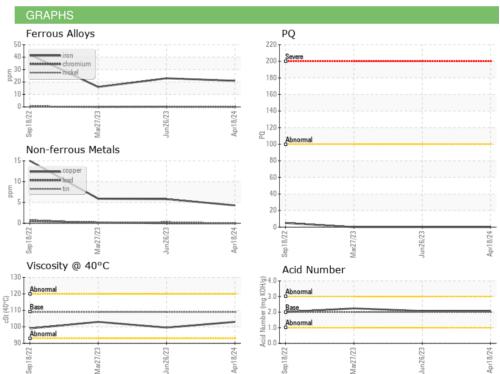
2.24



## **OIL ANALYSIS REPORT**



VISUAL		method				history2
White Metal	scalar	Visual*	NONE	NONE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	VLITE	VLITE	NONE
Debris	scalar	Visual*	NONE	VLITE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	Visual*	>0.2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	109	103	99.5	103
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				14		
Bottom						10x. 30 c





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory

Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Lab Number : 02630380 Unique Number : 5763512

: PP

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Test Package : IND 2 ( Additional Tests: TAN Man )

Received **Tested** Diagnosed

: 19 Apr 2024 : 22 Apr 2024

: 22 Apr 2024 - Wes Davis

SUITE 1000,, 100 NEW GOWER STREET ST.JOHNS, NL CA A1C 6K3 Contact: Sam Nash

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HIBERNIA MGMT & DEVELOPMENT CO. LTD

F: (709)722-3766

Validity of results and interpretation are based on the sample and information as supplied.

Contact/Location: Sam Nash - HIBSTJ