

#### EAST CRANE Machine Id 170831 (S/N MH-9163A) Component 3 Slewing Gearbox Fluid

GEAR OIL SAE 75W90 (--- GAL)

## 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.

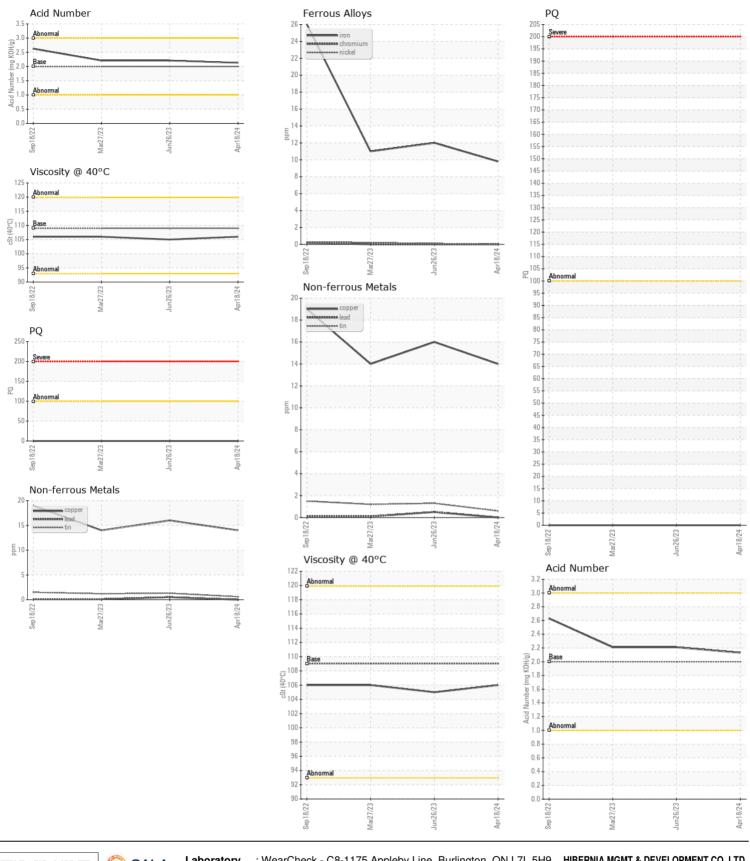
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PP	PP	PP
Sample Date		Client Info		18 Apr 2024	26 Jun 2023	27 Mar 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
PQ		ASTM D8184*		0	0	0
Iron	ppm	ASTM D5185(m)	>50	10	12	11
Chromium	ppm	ASTM D5185(m)	>10	0	0	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)		<1	1	1
Lead	ppm	ASTM D5185(m)	>15	0	<1	<1
Copper	ppm	ASTM D5185(m)	>10	14	16	14
Tin	ppm	ASTM D5185(m)	>10	<1	1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>25	<1	3	4
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
Potassium Water	ppm	( )	>20 >0.2	<1 NEG	-	0 NEG
	ppm scalar	ASTM D5185(m)			<1	-
Water		ASTM D5185(m) WC Method	>0.2	NEG	<1 NEG	NEG
Water Silt	scalar	ASTM D5185(m) WC Method Visual*	>0.2 NONE	NEG NONE	<1 NEG VLITE	NEG NONE
Water Silt Debris	scalar scalar	ASTM D5185(m) WC Method Visual* Visual*	>0.2 NONE NONE	NEG NONE VLITE	<1 NEG VLITE VLITE	NEG NONE NONE
Water Silt Debris Sand/Dirt	scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual*	>0.2 NONE NONE NONE	NEG NONE VLITE NONE	<1 NEG VLITE VLITE NONE	NEG NONE NONE NONE
Water Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual*	>0.2 NONE NONE NORE	NEG NONE VLITE NONE NORML	<1 NEG VLITE VLITE NONE NORML	NEG NONE NONE NORML
Water Silt Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual*	>0.2 NONE NONE NORML NORML	NEG NONE VLITE NONE NORML NORML	<1 NEG VLITE VLITE NONE NORML NORML	NEG NONE NONE NORML NORML
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual*	>0.2 NONE NONE NORML NORML	NEG NONE VLITE NONE NORML NORML NEG	<1 NEG VLITE VLITE NONE NORML NORML NEG	NEG NONE NONE NORML NORML NEG
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar scalar scalar ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m)	>0.2 NONE NONE NORML NORML >0.2	NEG NONE VLITE NONE NORML NEG	<1 NEG VLITE VLITE NONE NORML NORML NEG <1	NEG NONE NONE NORML NORML NEG
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	>0.2 NONE NONE NORML NORML >0.2	NEG NONE VLITE NORML NORML NEG <1 281	<1 NEG VLITE VLITE NONE NORML NEG <1 315	NEG NONE NONE NORML NORML NEG <1 308
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>0.2 NONE NONE NORML NORML >0.2 400 200 12	NEG NONE VLITE NORML NORML NEG <1 281 0 0 0	<1 NEG VLITE VLITE NONE NORML NORML NEG <1 315 0 0 0 <1	NEG           NONE           NONE           NORML           NORML           NORML           NORML           NORML           0           0           <1
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>0.2 NONE NONE NORML NORML >0.2 400 200 12	NEG NONE VLITE NORML NORML NEG <1 281 0 0 0 0 18	<1 NEG VLITE VLITE NONE NORML NEG <1 315 0 <1 95	NEG           NONE           NONE           NORML           NORML           NORML           NORML           0           0           <1           308           0           0           <1           98
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>0.2 NONE NONE NORML >0.2 400 200 12 12 12	NEG NONE VLITE NORML NORML NEG <1 281 0 0 0 0 18 2	<1 NEG VLITE VLITE NORML NORML NEG <1 315 0 0 ( 0 <1 95 6	NEG NONE NONE NORML NORML NEG <1 308 0 0 <1 98 4
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	<ul> <li>&gt;0.2</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>&gt;0.2</li> <li>400</li> <li>200</li> <li>12</li> <li>12</li> <li>150</li> <li>1650</li> </ul>	NEG NONE VLITE NORML NORML NEG <1 281 0 0 0 1 8 18 2 1345	<1 NEG VLITE VLITE NONE NORML NEG <1 315 0 ( 0 <1 95 6 1432	NEG NONE NONE NORML NORML NEG <1 308 0 0 <1 98 4 1533
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium Phosphorus Zinc	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	<ul> <li>&gt;0.2</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>&gt;0.2</li> <li>400</li> <li>200</li> <li>12</li> <li>150</li> <li>1650</li> <li>125</li> </ul>	NEG NONE VLITE NORML NORML NEG <1 281 0 281 0 0 18 2 1345 5	<1 NEG VLITE VLITE NONE NORML NEG <1 315 0 <1 95 6 1432 6	NEG NONE NONE NORML NORML NEG <1 308 0 0 <1 98 4 1533 5
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	<ul> <li>&gt;0.2</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>&gt;0.2</li> <li>400</li> <li>200</li> <li>12</li> <li>12</li> <li>150</li> <li>1650</li> </ul>	NEG NONE VLITE NORML NORML NEG <1 281 0 0 0 1 8 18 2 1345	<1 NEG VLITE VLITE NONE NORML NEG <1 315 0 ( 0 <1 95 6 1432	NEG NONE NONE NORML NORML NEG <1 308 0 0 <1 98 4 1533

ASTM D7279(m) 109

Visc @ 40°C

cSt

106 105 106 Contact/Location: Sam Nash - HIBSTJ



HIBERNIA MGMT & DEVELOPMENT CO. LTD Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : PP Received SUITE 1000,, 100 NEW GOWER STREET : 19 Apr 2024 Lab Number Tested ST.JOHNS, NL : 02630379 : 22 Apr 2024 ISO 17025:2017 Unique Number : 5763511 Accredited : 22 Apr 2024 - Kevin Marson CA A1C 6K3 Diagnosed Laboratory Test Package : IND 2 (Additional Tests: TAN Man) Contact: Sam Nash To discuss this sample report, contact Customer Service at 1-800-268-2131. samantha.m.nash@exxonmobil.com Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: F: (709)722-3766 Validity of results and interpretation are based on the sample and information as supplied.

Contact/Location: Sam Nash - HIBSTJ Page 2 of 2