

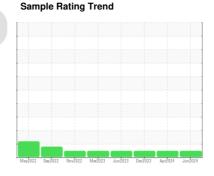
## **OIL ANALYSIS REPORT**

# **EAST CRANE [GH-9142A]**

170831

**Hydraulic System** 

**AW HYDRAULIC OIL ISO 32 (--- 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

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

#### **Fluid Condition**

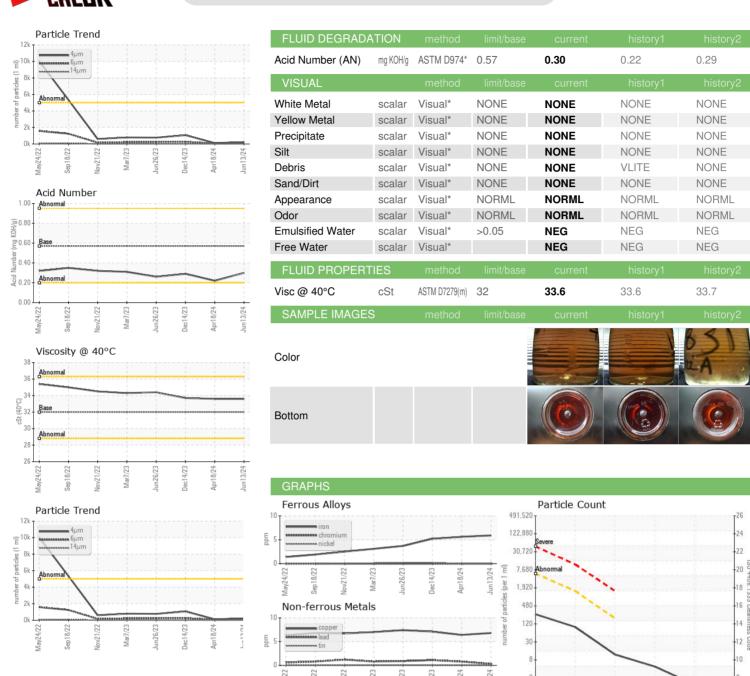
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PP	PP	PP
Sample Date		Client Info		13 Jun 2024	18 Apr 2024	14 Dec 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	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	6	6	5
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)	>10	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)		0	0	0
Lead	ppm	ASTM D5185(m)	>20	<1	<1	1
Copper	ppm	ASTM D5185(m)		7	6	7
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Antimony	ppm	ASTM D5185(m)		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
ADDITIVES Boron	ppm	ASTM D5185(m)	limit/base 5	<1	<1	history2 <1
Boron Barium	ppm	ASTM D5185(m) ASTM D5185(m)	5 5	<1 0	<1	<1 <1
Boron Barium Molybdenum	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5	<1 0 0	<1 0 0	<1 <1 0
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5	<1 0 0 0	<1 0 0 0	<1 <1 0
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5 25	<1 0 0 0 0	<1 0 0 0 0	<1 <1 0 0 6
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 25 200	<1 0 0 0 0 6 41	<1 0 0 0 0 6 42	<1 <1 0 0 6 42
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 25 200 300	<1 0 0 0 0 6 41 220	<1 0 0 0 0 6 42 216	<1 <1 0 0 6 42 223
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 25 200 300 370	<1 0 0 0 6 41 220 251	<1 0 0 0 0 6 42 216 248	<1 <1 0 0 6 42 223 256
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 25 200 300	<1 0 0 0 6 41 220 251 2470	<1 0 0 0 0 6 42 216 248 2561	<1 <1 0 0 6 42 223 256 2799
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 25 200 300 370 2500	<1 0 0 0 6 41 220 251	<1 0 0 0 0 6 42 216 248	<1 <1 0 0 6 42 223 256 2799 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 25 200 300 370	<1 0 0 0 6 41 220 251 2470	<1 0 0 0 6 42 216 248 2561 <1	<1 <1 0 0 6 42 223 256 2799 <1 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)  method  ASTM D5185(m)	5 5 5 25 200 300 370 2500	<1 0 0 0 6 41 220 251 2470 <1 current	<1 0 0 0 6 42 216 248 2561 <1 history1	<1 <1 0 0 6 42 223 256 2799 <1 history2 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 25 200 300 370 2500	<1 0 0 0 6 41 220 251 2470 <1 current <1	<1 0 0 0 6 42 216 248 2561 <1 history1 <1 <1	<1 <1 0 0 6 42 223 256 2799 <1 history2 2 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)  method  ASTM D5185(m)	5 5 5 25 200 300 370 2500	<1 0 0 0 6 41 220 251 2470 <1 current	<1 0 0 0 6 42 216 248 2561 <1 history1	<1 <1 0 0 6 42 223 256 2799 <1 history2 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 25 200 300 370 2500 limit/base >15 >20	<1 0 0 0 6 41 220 251 2470 <1 current <1	<1 0 0 0 6 42 216 248 2561 <1 history1 <1 <1	<1 <1 0 0 6 42 223 256 2799 <1 history2 2 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 25 200 300 370 2500 limit/base >15	<1 0 0 0 6 41 220 251 2470 <1 current <1 <1	<1 0 0 0 6 42 216 248 2561 <1 history1 <1 <1 <1	<1 <1 0 0 6 42 223 256 2799 <1 history2 2 <1 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)  MASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5 25 200 300 370 2500 limit/base >15 >20	<1 0 0 0 6 41 220 251 2470 <1 current <1 <1 <1 current	<1 0 0 0 6 42 216 248 2561 <1 history1 <1 <1 <1 history1	<1 <1 0 0 6 42 223 256 2799 <1 history2 2 <1 0 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 25 200 300 370 2500  limit/base >15 >20 limit/base >5000 >1300 >160	<1 0 0 0 6 41 220 251 2470 <1 current <1 <1 current 222 83 10	<1 0 0 0 6 42 216 248 2561 <1 history1 <1 <1 <1 41 <1 113 49 11	<1 <1 0 0 6 42 223 256 2799 <1 history2 2 100 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium  CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)  MASTM D5185(m)  MASTM D5185(m)  MASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647	5 5 5 25 200 300 370 2500 limit/base >15 >20 limit/base >5000 >1300 >160 >40	<1 0 0 0 6 41 220 251 2470 <1 current <1 <1 current 222 83	<1 0 0 0 6 42 216 248 2561 <1 history1 <1 <1 <1 49 11 4	<1 <1 0 0 6 42 223 256 2799 <1 history2 2 <1 0 history2 1062 261
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium  CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)  method ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	5 5 5 25 200 300 370 2500 limit/base >15 >20 limit/base >5000 >1300 >160	<1 0 0 0 6 41 220 251 2470 <1 current <1 <1 current 222 83 10 4 1	<1 0 0 0 6 42 216 248 2561 <1 history1 <1 <1 <1 49 11 4 1	<1 <1 0 0 6 42 223 256 2799 <1 history2 2 <1 0 history2 1062 261 15 4 1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium  CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)  MASTM D5185(m)  MASTM D5185(m)  MASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647	5 5 5 25 200 300 370 2500 limit/base >15 >20 limit/base >5000 >1300 >160 >40	<1 0 0 0 6 41 220 251 2470 <1 current <1 <1 current 222 83 10 4	<1 0 0 0 6 42 216 248 2561 <1 history1 <1 <1 <1 49 11 4	<1 <1 0 0 6 42 223 256 2799 <1 history2 2 <1 0 history2 1062 261 15 4

Contact/Location: Sam Nash - HIBSTJ



## OIL ANALYSIS REPORT







Laboratory Sample No.

: PP

Lab Number : 02641967 Unique Number : 5799506 Test Package : IND 2

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 14 Jun 2024 **Tested** : 17 Jun 2024

Diagnosed : 17 Jun 2024 - Wes Davis

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

Viscosity @ 40°C

Base 설 30·

**HIBERNIA MGMT & DEVELOPMENT CO. LTD** 

Acid Number

KOH/g)

0.00

SUITE 1000,, 100 NEW GOWER STREET ST.JOHNS, NL **CA A1C 6K3** 

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