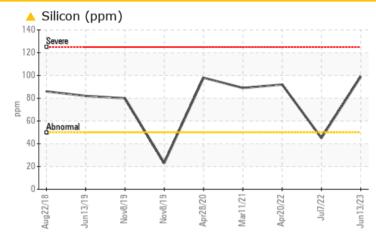


PROBLEM SUMMARY

Area HAPL CRANES Machine Id 10.1 CRANE - EAST BRIDGE Component

Gearbox Fluid NOT GIVEN (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS										
Sample Status				ABNORMAL	NORMAL	ABNORMAL				
Silicon	ppm	ASTM D5185m	>50	<u> </u>	45	<u> </u>				

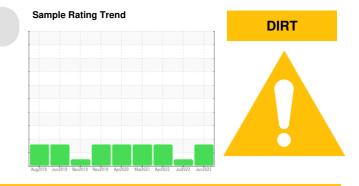
Customer Id: OUTCALAL Sample No.: RP0035380 Lab Number: 05873925 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 <u>don.b505@comcast.net</u>

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>



There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



07 Jul 2022 Diag: Wes Davis

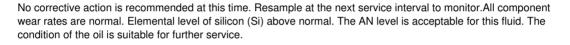
Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow 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. All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

20 Apr 2022 Diag: Jonathan Hester



No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The water content is negligible. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

11 Mar 2021 Diag: Angela Borella







view report





OIL ANALYSIS REPORT

Area HAPL CRANES Machine Id 10.1 CRANE - EAST BRIDGE

Gearbox Fluid NOT GIVEN (--- GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

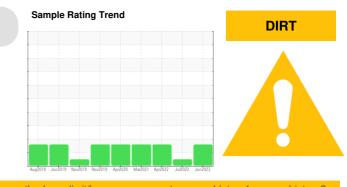
All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal.

Fluid Condition

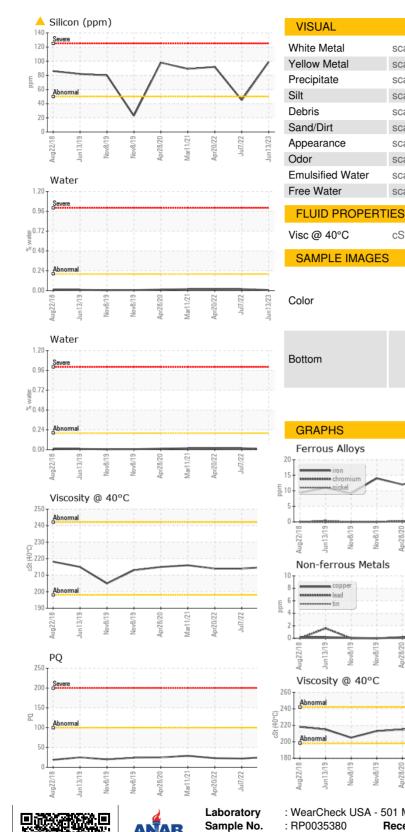
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



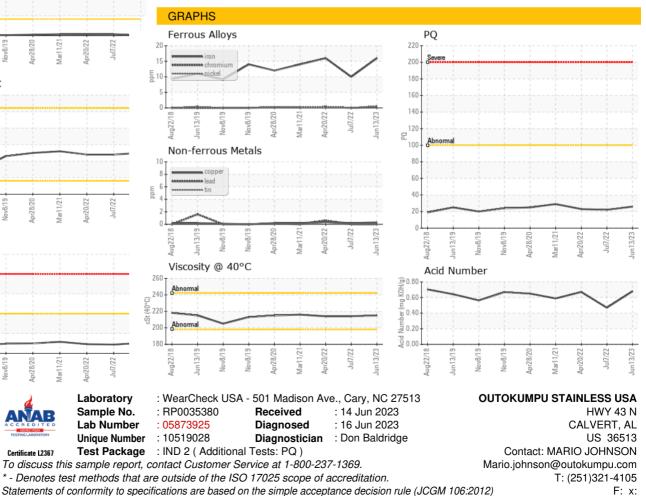
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0035380	RP0028643	RP0024985
Sample Date		Client Info		13 Jun 2023	07 Jul 2022	20 Apr 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		26	22	23
Iron	ppm	ASTM D5185m	>200	16	10	16
Chromium	ppm	ASTM D5185m	>15	<1	0	<1
Nickel	ppm	ASTM D5185m	>15	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>25	1	1	3
Lead	ppm	ASTM D5185m	>100	0	0	<1
Copper	ppm	ASTM D5185m	>200	<1	<1	<1
Tin	ppm	ASTM D5185m	>25	0	0	<1
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	7	2
Barium	ppm	ASTM D5185m		3	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		54	23	63
Calcium	ppm	ASTM D5185m		10	5	9
					0	
Phosphorus	ppm	ASTM D5185m		339	210	405
Phosphorus Zinc	ppm ppm	ASTM D5185m ASTM D5185m				405 5
•	ppm		limit/base	339	210	
Zinc	ppm	ASTM D5185m	limit/base	339 9	210 40 history1 45	5
Zinc CONTAMINANTS	ppm	ASTM D5185m method		339 9 current	210 40 history1	5 history2
Zinc CONTAMINANTS Silicon	ppm ppm	ASTM D5185m method ASTM D5185m		339 9 current ▲ 99	210 40 history1 45	5 history2 ▲ 92
Zinc CONTAMINANTS Silicon Sodium	ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m	>50	339 9 <u>current</u> ▲ 99 8	210 40 history1 45 6	5 history2 ▲ 92 8
Zinc CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	>50 >20	339 9 current ▲ 99 8 2	210 40 history1 45 6 0	5 history2 ▲ 92 8 2
Zinc CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm % ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	>50 >20 >0.2	339 9 current ▲ 99 8 2 0.007	210 40 history1 45 6 0 0.017	5 history2 ▲ 92 8 2 0.015



OIL ANALYSIS REPORT







Submitted By: DALE ROBINSON