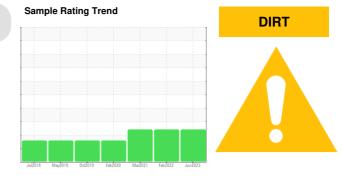


## **PROBLEM SUMMARY**

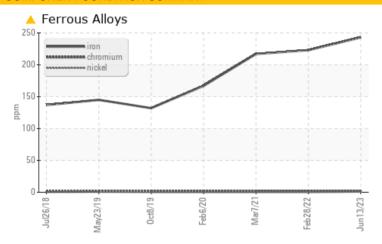
# **CRW CRANES** 10.1 CRANE - NORTH BRIDGE

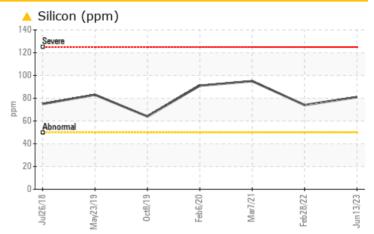
Component Gearbox

GEAR OIL ISO 220 (--- GAL)



## **COMPONENT CONDITION SUMMARY**





## RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL		
Iron	ppm	ASTM D5185m	>200	<b>4</b> 243	<u>^</u> 223	<u>^</u> 217		
Silicon	mag	ASTM D5185m	>50	<u> </u>	<u>^</u> 74	A 95		

**Customer Id: OUTCALAL** Sample No.: RP0034501 Lab Number: 05873933 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

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

## **RECOMMENDED ACTIONS**

Action	Status	Date	Done By	Description
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Resample MISSED Jul 03 2023 ? We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS

## 28 Feb 2022 Diag: Jonathan Hester





No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



## 07 Mar 2021 Diag: Don Baldridge

DIRT



No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### 06 Feb 2020 Diag: Don Baldridge

DIKT



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



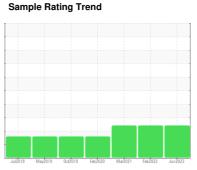


## **OIL ANALYSIS REPORT**

# CRW CRANES 10.1 CRANE - NORTH BRIDGE

Component Gearbox

GEAR OIL ISO 220 (--- GAL)





## **DIAGNOSIS**

## Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

## Wear

Gear wear is indicated.

## 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	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0034501	RP0024938	RP0016636
Sample Date		Client Info		13 Jun 2023	28 Feb 2022	07 Mar 2021
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	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		130	89	98
Iron	ppm	ASTM D5185m	>200	<b>4</b> 243	<u>^</u> 223	<u>^</u> 217
Chromium	ppm	ASTM D5185m	>15	2	2	2
Nickel	ppm	ASTM D5185m	>15	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	1	2	<1
Lead	ppm	ASTM D5185m	>100	0	0	<1
Copper	ppm	ASTM D5185m	>200	<1	<1	<1
Tin	ppm	ASTM D5185m	>25	0	0	0
Antimony	ppm	ASTM D5185m	>5		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	50	4	6	5
Barium	ppm	ASTM D5185m	15	2	0	0
Molybdenum	ppm	ASTM D5185m	15	<1	<1	<1
Manganese	ppm	ASTM D5185m		1	1	1
Magnesium	ppm	ASTM D5185m	50	43	44	53
Calcium	ppm	ASTM D5185m	50	27	26	29
Phosphorus	ppm	ASTM D5185m	350	298	322	324
Zinc	ppm	ASTM D5185m	100	35	23	5
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<u></u> ▲ 81	<u>^</u> 74	<u> </u>
Sodium	ppm	ASTM D5185m		10	10	10
Potassium	ppm	ASTM D5185m	>20	2	2	1
Water	%	ASTM D6304	>0.2	0.004	0.003	0.021
ppm Water	ppm	ASTM D6304	>2000	49.5	37.1	212.9
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	0.49	0.53	0.470



## **OIL ANALYSIS REPORT**







Certificate L2367

Sample No. Lab Number **Unique Number** 

: 05873933 : 10519036

Received Diagnosed Diagnostician

: 16 Jun 2023 : Don Baldridge

Test Package : IND 2 (Additional Tests: PQ) To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Mario.johnson@outokumpu.com

Contact: MARIO JOHNSON

F: x:

CALVERT, AL US 36513

T: (251)321-4105