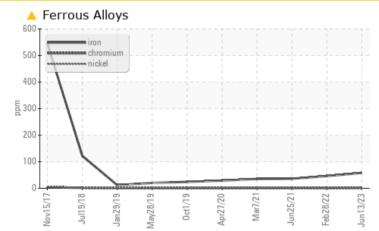


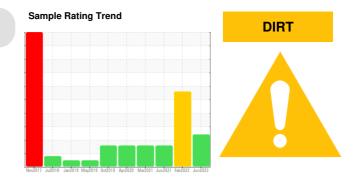
## **PROBLEM SUMMARY**

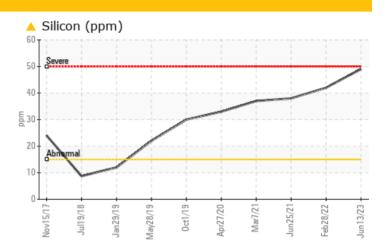
### Area CRW CRANES Machine Id 10.3 CRANE Component

Main Hoist Fluid GEAR OIL ISO 220 (--- 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	ABNORMAL	ABNORMAL				
Iron	ppm	ASTM D5185m	>20	<u> </u>	<b>4</b> 6	36				
Silicon	ppm	ASTM D5185m	>15	<u> </u>	<u> </u>	<b>A</b> 38				

Customer Id: OUTCALAL Sample No.: RP0034900 Lab Number: 05873920 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>

### **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

### **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. The iron level is abnormal. Moderate concentration of visible metal present. The high ferrous density (PQ) index indicates that abnormal wear is occurring. 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.

### 25 Jun 2021 Diag: Don Baldridge

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.

07 Mar 2021 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. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





view report



## **OIL ANALYSIS REPORT**

### Area CRW CRANES Machine Id 10.3 CRANE Component

Main Hoist Fluid GEAR OIL ISO 220 (--- GAL)

### DIAGNOSIS

### A Recommendation

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

### 🔺 Wear

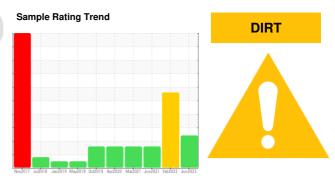
The iron level is abnormal. All other component wear rates are normal.

### 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		RP0034900	RP0024936	RP0017037
Sample Date		Client Info		13 Jun 2023	28 Feb 2022	25 Jun 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		182	<b>6</b> 1	62
Iron	ppm	ASTM D5185m	>20	<u> </u>	<b>4</b> 6	36
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>20	1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>20	0	<1	<1
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	14	12	10
Tin	ppm	ASTM D5185m	>20	0	0	<1
Antimony	ppm	ASTM D5185m			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	5	7	15
Barium	ppm	ASTM D5185m	15	2	0	0
Molybdenum	ppm	ASTM D5185m	15	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	50	2	1	2
Calcium	ppm	ASTM D5185m	50	16	16	15
Phosphorus	ppm	ASTM D5185m	350	168	180	174
Zinc	ppm	ASTM D5185m	100	8	6	7
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<b>4</b> 9	<b>4</b> 2	▲ 38
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
Water	%	ASTM D6304	>0.05	0.002	0.003	0.004
ppm Water	ppm	ASTM D6304	>500	24.3	34.6	49.0
1-1-	1.1					
FLUID DEGRADA		method	limit/base	current	history1	history2



PQ 700

# **OIL ANALYSIS REPORT**

scalar

scalar

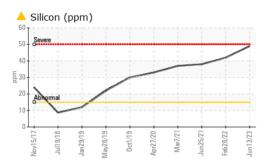
scalar

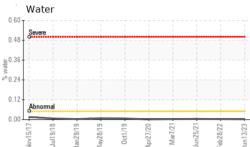
method

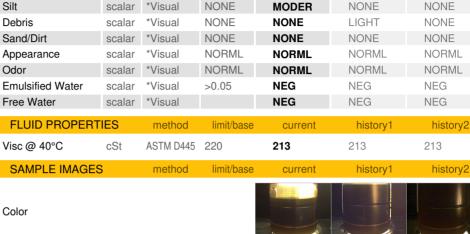
\*Visual

\*Visual

\*Visual







limit/base

NONE

NONE

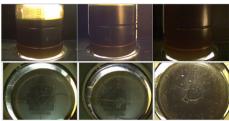
NONE

current

NONE

NONE

NONE



history1

MODER

NONE

NONE

history2

VLITE

NONE

NONE

Bottom

Color

VISUAL

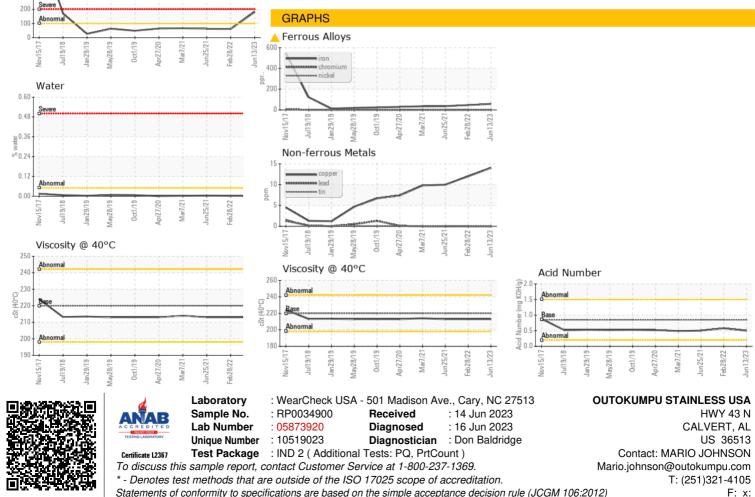
White Metal

Yellow Metal

Precipitate

Silt

Odor



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

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