

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

CRW CRANES **10.1 EAST TROLLEY**

Component

Gearbox

GEAR OIL (PAO) ISO 220 (--- 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

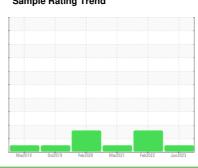
All component wear rates are normal.

Contamination

The water content is negligible. 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.



SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0034497	RP0024943	RP0016640
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				NORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		38	35	41
Iron	ppm	ASTM D5185m	>200	69	69	50
Chromium	ppm	ASTM D5185m	>15	<1	<1	<1
Nickel	ppm	ASTM D5185m	>15	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	<1	0
Lead	ppm	ASTM D5185m	>100	0	0	0
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	25	0	2	1
Barium	ppm	ASTM D5185m	12	2	0	0
Molybdenum	ppm	ASTM D5185m	5	<1	<1	<1
Manganese	ppm	ASTM D5185m		1	1	<1
Magnesium	ppm	ASTM D5185m	25	23	28	20
Calcium	ppm	ASTM D5185m	25	4	5	10
Phosphorus	ppm	ASTM D5185m	375	327	366	350
Zinc	ppm	ASTM D5185m	25	31	29	8
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	47	△ 50	41
Sodium	ppm	ASTM D5185m		6	6	3
Potassium	ppm	ASTM D5185m	>20	1	1	0
Water	%	ASTM D6304	>0.2	0.006	0.003	0.026
ppm Water	ppm	ASTM D6304	>2000	61.6	34.7	263.3
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.10	0.64	0.53	0.604



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Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : RP0034497 : 05873931

Received Diagnosed : 10519034

Diagnostician 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.

OUTOKUMPU STAINLESS USA

HWY 43 N CALVERT, AL US 36513

Contact: MARIO JOHNSON Mario.johnson@outokumpu.com

T: (251)321-4105 F: x:

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

: 14 Jun 2023

: 15 Jun 2023

: Wes Davis