

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

CONNECTION BAY CRANES **CB 20.1 MAIN GEARBOX**

Component

GEAR OIL ISO 220 (--- QTS)

Gearbox

Recommendation

Resample at the next service interval to monitor.

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.



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Sample Number		Client Info		RP0038026	RP0025046	RP0015645
Sample Date		Client Info		21 Nov 2023	20 Apr 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	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		241	129	135
Iron	ppm	ASTM D5185m	>200	162	120	84
Chromium	ppm	ASTM D5185m	>15	2	1	<1
Nickel	ppm	ASTM D5185m	>15	0	<1	<1
Titanium	ppm	ASTM D5185m		1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	1	2	0
Lead	ppm	ASTM D5185m	>100	0	0	<1
Copper	ppm	ASTM D5185m	>200	1	1	<1
Tin	ppm	ASTM D5185m	>25	0	<1	0
Antimony	ppm	ASTM D5185m	>5			0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	15	21	20
Barium	ppm	ASTM D5185m	15	0	0	0
Molybdenum	ppm	ASTM D5185m	15	0	<1	<1
Manganese	ppm	ASTM D5185m		2	1	<1
Magnesium	ppm	ASTM D5185m	50	0	<1	0
Calcium	ppm	ASTM D5185m	50	12	11	11
Phosphorus	ppm	ASTM D5185m	350	186	223	201
Zinc	ppm	ASTM D5185m	100	0	1	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	13	10	8
Sodium	ppm	ASTM D5185m		<1	<1	0
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304	>0.2	0.016	0.008	0.011
ppm Water	ppm	ASTM D6304	>2000	165	86.4	116.8
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FLUID DEGRADA		method	limit/base	current	history1	history2



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Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: 06015802 : 10754946

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : RP0038026 Received

Diagnosed Diagnostician : 22 Nov 2023

: 27 Nov 2023

: Jonathan Hester

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)

OUTOKUMPU STAINLESS USA

HWY 43 N CALVERT, AL US 36513

Contact: MARIO JOHNSON Mario.johnson@outokumpu.com

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