

# **OIL ANALYSIS REPORT**

## Sample Rating Trend

# **NORMAL**



# **CONNECTION BAY CRANES** CB 20.1 NORTH BRIDGE

Component Gearbox

GEAR OIL ISO 220 (--- QTS)

### Recommendation

Resample at the next service interval to monitor.

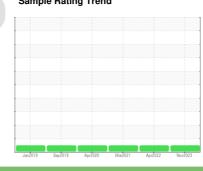
All component wear rates are normal.

#### 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.



SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0038027	RP0025056	RP0015629
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		55	41	47
Iron	ppm	ASTM D5185m	>200	59	45	38
Chromium	ppm	ASTM D5185m	>15	0	<1	<1
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	1	0
Lead	ppm	ASTM D5185m	>100	0	<1	0
Copper	ppm	ASTM D5185m	>200	<1	0	<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	30	32	31
Barium	ppm	ASTM D5185m	15	0	0	0
Molybdenum	ppm	ASTM D5185m	15	0	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	50	0	3	1
Calcium	ppm	ASTM D5185m	50	766	666	765
Phosphorus	ppm	ASTM D5185m	350	460	474	482
Zinc	ppm	ASTM D5185m	100	6	7	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	7	5	6
Sodium	ppm	ASTM D5185m		2	<1	0
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304	>0.2	0.024	0.023	0.031
ppm Water	ppm	ASTM D6304	>2000	247	238.8	313.0
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	0.52	0.56	0.567



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Certificate L2367

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : RP0038027 : 06015799

: 10754943

Received : 22 Nov 2023 Diagnosed : 27 Nov 2023 : Jonathan Hester 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** 

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