

OIL ANALYSIS REPORT

SAMPLE INFORMATION method

Acid Number (AN)

mg KOH/g ASTM D8045 0.85

Sample Rating Trend

NORMAL



GEAR OIL ISO 220 (--- QTS)

CONNECTION BAY CRANES CB 20.2 SOUTHWEST BRIDGE Component Gearbox

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

rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Wear

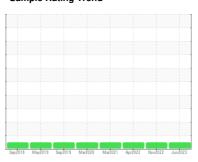
regarding reservoir capacity, filter type and micron

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 Number		Client Info		RP0034898	RP0030772	RP0025060
Sample Date		Client Info		13 Jun 2023	02 Nov 2022	20 Apr 2022
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		13	13	21
Iron	ppm	ASTM D5185m	>200	16	16	18
Chromium	ppm	ASTM D5185m	>15	<1	0	<1
Nickel	ppm	ASTM D5185m	>15	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	0	<1
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	0	<1
Tin	ppm	ASTM D5185m	>25	<1	0	<1
Antimony	ppm	ASTM D5185m	>5			
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	0	7
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	<1	0	<1
Calcium	ppm	ASTM D5185m	50	4	2	3
Phosphorus	ppm	ASTM D5185m	350	256	286	316
Zinc	ppm	ASTM D5185m	100	7	6	2
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	16	12	13
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	2	0	1
Water	%	ASTM D6304	>0.2	0.001	0.004	0.010
ppm Water	ppm	ASTM D6304	>2000	11.8	43.4	106.0
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

0.59

0.63

0.64



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Certificate L2367

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

: RP0034898 : 05873938 : 10519041

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Jun 2023 Diagnosed : 16 Jun 2023 : Wes Davis 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)