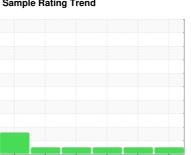


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



CRW CRANES 10.3 EAST TROLLEY

Component Gearbox

GEAR OIL (PAO) 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.

		May2019	Oct2019 Apr2020	Mar 2021 Feb 2022	Jun 2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0034903	RP0024935	RP0015631
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	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		15	17	15
Iron	ppm	ASTM D5185m	>200	5	5	5
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	1	0
Aluminum	ppm	ASTM D5185m	>25	0	<1	0
Lead	ppm	ASTM D5185m	>100	0	<1	<1
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	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	25	3	5	4
Barium	ppm	ASTM D5185m	12	2	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	25	17	19	15
Calcium	ppm	ASTM D5185m	25	4	4	3
Phosphorus	ppm	ASTM D5185m	375	237	258	245
Zinc	ppm	ASTM D5185m	25	14	12	0
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	34	32	31
Sodium	ppm	ASTM D5185m		3	3	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
Water	%	ASTM D6304	>0.2	0.004	0.035	0.008
ppm Water	ppm	ASTM D6304	>2000	48.7	358.2	85.8
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

0.54

Acid Number (AN) mg KOH/g ASTM D8045 1.10

0.58

0.515



OIL ANALYSIS REPORT







Certificate L2367

Laboratory

Sample No. Lab Number **Unique Number**

: 10519039

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : RP0034903 : 05873936

Received Diagnosed

: 16 Jun 2023 Diagnostician : Don Baldridge

: 14 Jun 2023

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

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