

# **OIL ANALYSIS REPORT**

### Sample Rating Trend

## NORMAL

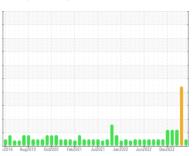


# **CRM 64 ROLL CHANGING CART (S/N 16-2300-1010)**

Component

**Hydraulic System** 

AW HYDRAULIC OIL ISO 46 (--- QTS)





#### 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 system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

#### **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		12016 Aug20	13 OCIZOZO PROZOZI	Jul2021 Jan2022 Jun2022	Dec2022	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0035382	RP0031193	RP0031452
Sample Date		Client Info		13 Jun 2023	07 Apr 2023	20 Feb 2023
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	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	<1	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	<1	0
Tin	ppm	ASTM D5185m	>20	0	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	5	0	0	0
Barium	ppm	ASTM D5185m	5	2	1	0
Molybdenum		ASTM D5185m	5	<1	<1	<1
Manganese	ppm	ASTM D5185m	5	0	0	0
Magnesium		ASTM D5185m	25	1	0	0
Calcium	ppm	ASTM D5185m	200	51	48	49
	ppm	ASTM D5185m	300	325	337	313
Phosphorus	ppm	ASTM D5185m		431	437	
Zinc	ppm		370	431	437	395
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	3	2
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water	%	ASTM D6304	>0.05	0.005	△ 0.085	0.008
ppm Water	ppm	ASTM D6304	>500	56.9	<u>▲</u> 850	83.1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>640	605	<b>△</b> 2329	<u></u> 1088
Particles >6µm		ASTM D7647	>160	154	<u></u> 595	<u>△</u> 232
Particles >14µm		ASTM D7647	>20	6	<u>\$\infty\$ 25</u>	16
Particles >21µm		ASTM D7647	>4	1	<b>6</b>	5
Particles >38µm		ASTM D7647	>3	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>16/14/11	16/14/10	<b>△</b> 18/16/12	▲ 17/15/11
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.36	0.41	0.35



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