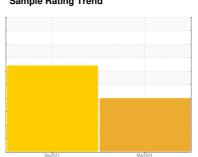


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id

MACHINE 3 PUMP 1

Hydraulic System

AW HYDRAULIC OIL ISO 46 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

The iron level is abnormal. The copper level is abnormal.

Contamination

There is a moderate amount of visible silt present in the sample. There is a light concentration of water present in the oil.

Fluid Condition

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

			Dec2023	Mar2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0908008	WC0850241	
Sample Date		Client Info		28 Mar 2024	13 Dec 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	SEVERE	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<u>^</u> 25	<u>^</u> 29	
Chromium	ppm	ASTM D5185m	>20	1	<1	
Nickel	ppm	ASTM D5185m	>20	<1	<1	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		0	<1	
Aluminum	ppm	ASTM D5185m	>20	3	1	
Lead	ppm	ASTM D5185m	>20	<1	<1	
Copper	ppm	ASTM D5185m	>20	45	△ 35	
Tin	ppm	ASTM D5185m	>20	1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		<1	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	
Barium	ppm	ASTM D5185m	5	<1	0	
Molybdenum	ppm	ASTM D5185m	5	0	0	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m	25	<1	1	
Calcium	ppm	ASTM D5185m	200	6	2	
Phosphorus	ppm	ASTM D5185m	300	480	459	
Zinc	ppm	ASTM D5185m	370	15	22	
Sulfur	ppm	ASTM D5185m	2500	541	561	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	4	4	
Sodium	ppm	ASTM D5185m		0	<1	
Potassium	ppm	ASTM D5185m	>20	1	3	
Water	%	ASTM D6304	>0.05	<u> </u>	▲ 0.974	
ppm Water	ppm	ASTM D6304	>500	1080	4 9740	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000		2514	
Particles >6µm		ASTM D7647	>1300		1370	
Particles >14µm		ASTM D7647	>160		233	
Particles >21µm		ASTM D7647	>40		79	
Particles >38µm		ASTM D7647	>10		12	
Particles >71µm		ASTM D7647	>3		1	
Oil Cleanliness		ISO 4406 (c)	>19/17/14		1 9/18/15	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.17	0.19	
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Contact/Location: NICO LEEJAY - UNIARL



OIL ANALYSIS REPORT

