

OIL ANALYSIS REPORT

Area SPM74 - HYDRAULIC SKIN PASS MILL HIGH AND LOW PRESSURE (S/N 16-4

Hydraulic System

AW HYDRAULIC OIL ISO 46 (--- QTS)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

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

SIS REPORT						ISO	
JRE (S/N 16-4100-1020)							
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		RP0042505	RP0042740	RP0042610	
Sample Date		Client Info		08 May 2024	26 Mar 2024	29 Feb 2024	
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				ABNORMAL	ABNORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>20	0	<1	<1	
Chromium	ppm	ASTM D5185m	>20	0	0	0	
Nickel	ppm	ASTM D5185m	>20	0	0	0	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m		0	0	0	
Aluminum	ppm	ASTM D5185m		0	0	0	
Lead	ppm	ASTM D5185m	>20	0	0	0	
Copper	ppm	ASTM D5185m		0	<1	0	
Tin	ppm	ASTM D5185m	>20	<1	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	0	0	0	
Molybdenum	ppm	ASTM D5185m	5	0	0	0	
Manganese	ppm	ASTM D5185m		0	0	0	
Magnesium	ppm	ASTM D5185m	25	0	0	<1	
Calcium	ppm	ASTM D5185m	200	46	41	45	
Phosphorus	ppm	ASTM D5185m	300	339	314	321	
Zinc	ppm	ASTM D5185m	370	385	385	362	

Sample Rating Trend

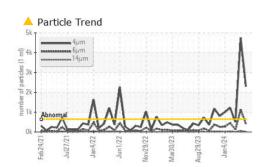
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	1	1
Sodium	ppm	ASTM D5185m		<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304	>0.05	0.002	0.001	0.003
ppm Water	ppm	ASTM D6304	>500	21	15	31

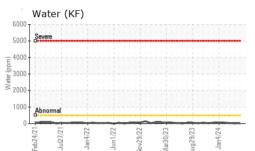
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>640	2297	4 761	504
Particles >6µm	ASTM D7647	>160	402	1 133	125
Particles >14µm	ASTM D7647	>20	18	6 4	11
Particles >21µm	ASTM D7647	>4	4	1 3	2
Particles >38µm	ASTM D7647	>3	0	0	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>16/14/11	18/16/11	▲ 19/17/13	16/14/11
FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045	0.57	0.21	0.25	0.31

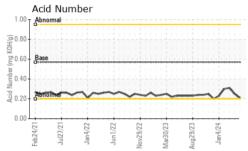
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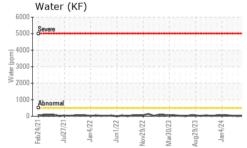


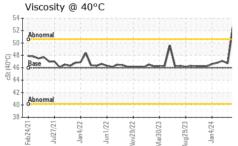
OIL ANALYSIS REPORT





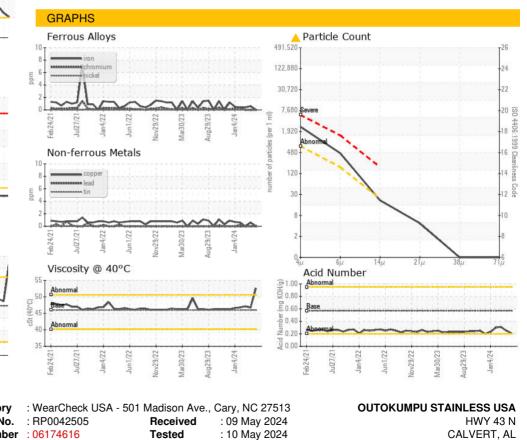






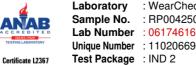
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	52.6	46.7	47.1
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				•		
Dettern				(()		

Bottom



: 13 May 2024 - Don Baldridge





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)

Diagnosed

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