

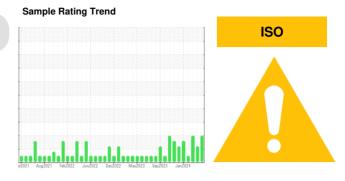
OIL ANALYSIS REPORT

SPM74 - HYDRAULIC

SKIN PASS MILL HIGH AND LOW PRESSURE (S/N 16-4100-1020)

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. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. 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

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

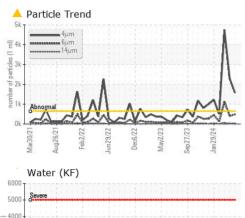
Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

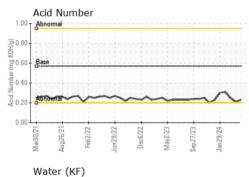
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0044237	RP0042505	RP0042740
Sample Date		Client Info		03 Jun 2024	08 May 2024	26 Mar 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	1	0	<1
Chromium	ppm	ASTM D5185m	>20	<1	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	>20	2	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	0	<1
Tin	ppm	ASTM D5185m	>20	0	<1	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	<1	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m	0.5	0	0	0
Magnesium	ppm	ASTM D5185m	25	<1	0	0
Calcium	ppm	ASTM D5185m	200	48	46	41
Phosphorus	ppm	ASTM D5185m	300	333	339	314
Zinc	ppm	ASTM D5185m	370	383	385	385
CONTAMINANTS	1	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	2	1
Sodium	ppm	ASTM D5185m		0	<1	<1
				U		
Potassium	ppm	ASTM D5185m	>20	1	<1	0
Potassium Water	ppm %	ASTM D5185m ASTM D6304	>20 >0.05		<1 0.002	0.001
Water				1		
Water	% ppm	ASTM D6304	>0.05	1 0.004	0.002	0.001 15
Water ppm Water	% ppm	ASTM D6304 ASTM D6304	>0.05 >500	1 0.004 44	0.002 21	0.001 15
Water ppm Water FLUID CLEANLIN Particles >4μm	% ppm	ASTM D6304 ASTM D6304 method	>0.05 >500 limit/base	1 0.004 44 current	0.002 21 history1	0.001 15 history2
Water ppm Water FLUID CLEANLIN Particles >4μm Particles >6μm	% ppm	ASTM D6304 ASTM D6304 method ASTM D7647	>0.05 >500 limit/base >640	1 0.004 44 current	0.002 21 history1 ▲ 2297	0.001 15 history2
Water ppm Water FLUID CLEANLIN	% ppm	ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647	>0.05 >500 limit/base >640 >160 >20	1 0.004 44 current 1572 483	0.002 21 history1 ▲ 2297 ▲ 402	0.001 15 history2 \$\triangle 4761 \$\triangle 1133
Water ppm Water FLUID CLEANLIN Particles >4 Particles >6 Particles >14 Particles >14 Particles >14	% ppm	ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >640 >160 >20	1 0.004 44 current 1572 483 37	0.002 21 history1 ▲ 2297 ▲ 402 18	0.001 15 history2 \$\triangle 4761 \$\triangle 1133 \$\triangle 64\$
Water ppm Water FLUID CLEANLIN Particles >4 Particles >6 Particles >14 Particles >21 Particles >21	% ppm	ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >640 >160 >20 >4	1 0.004 44 current 1572 483 37 10	0.002 21 history1 ▲ 2297 ▲ 402 18 4	0.001 15 history2 4761 1133 64 13
Water opm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	% ppm	ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >640 >160 >20 >4 >3	1 0.004 44 current 1572 483 37 10 1	0.002 21 history1 ▲ 2297 ▲ 402 18 4 0	0.001 15 history2 4761 1133 64 13 0
Water opm Water FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm Particles >71µm	% ppm	ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >640 >160 >20 >4 >3 >3	1 0.004 44 current 1572 483 37 10 10 1	0.002 21 history1 ▲ 2297 ▲ 402 18 4 0	0.001 15 history2 4761 1133 64 13 0

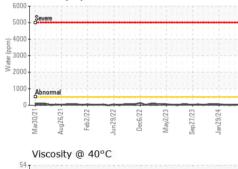


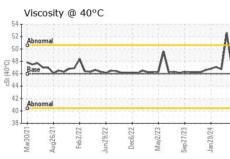
OIL ANALYSIS REPORT



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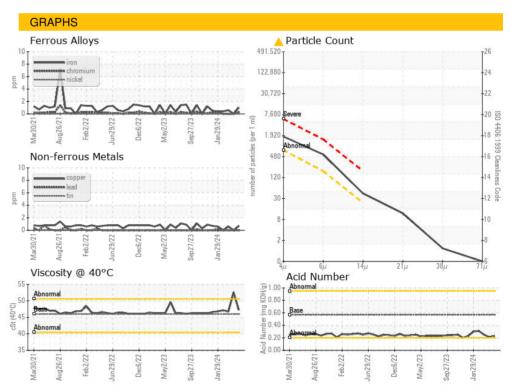


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERT	TES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	47.2	52.6	46.7

SAMPLE IMAGES	memod	iiiiii/base
Color		











Certificate 12367

Laboratory

Sample No. Lab Number : 06199116

: RP0044237 Unique Number : 11061239

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 04 Jun 2024 **Tested**

: 06 Jun 2024 Diagnosed : 06 Jun 2024 - Wes Davis

Test Package : IND 2 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)

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