

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id MACHINE 40 (S/N 83774) Component

Hydraulic System Fluid ESSO NUTO H ISO 46 (400 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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.

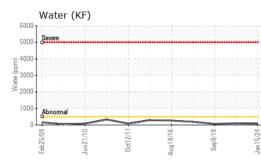
Fluid Condition

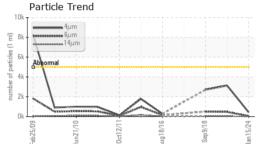
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

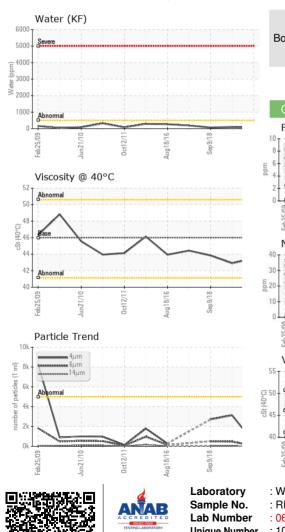
Sample Date Client Info 15 Jan 2024 18 Jan 2021 09 Sep 2018 Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info 0 0 0 Sample Status Client Info N/A N/A N/A N/A WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05155m >20 0 <1 0 Nickel ppm ASTM 05155m >20 0 0 0 Aluminum ppm ASTM 05155m 20 0 -1 0 Auminum ppm ASTM 05155m 20 0 -1 0 Lead ppm ASTM 05155m 20 0 0 0 0 Autimum ppm ASTM 05155m 0 0 0 0 0 Corper ppm ASTM 05155m 0 0 0 0 0	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Date Client Info 15 Jan 2024 18 Jan 2021 09 Sep 2018 Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info 0 0 0 Sample Status Client Info N/A N/A N/A N/A WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05155m >20 0 <1 0 Nickel ppm ASTM 05155m >20 0 0 0 Aluminum ppm ASTM 05155m 20 0 -1 0 Auminum ppm ASTM 05155m 20 0 -1 0 Lead ppm ASTM 05155m 20 0 0 0 0 Autimum ppm ASTM 05155m 0 0 0 0 0 Corper ppm ASTM 05155m 0 0 0 0 0	Sample Number		Client Info		RP0038680	RP194024	RP99485
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Sample Status method Imit/base current history1 history2 tron ppm ASTM D5165m >20 2 2 <1 Chromium ppm ASTM D5165m >20 0 <1 0 Nickel ppm ASTM D5165m >20 0 0 0 Titanium ppm ASTM D5165m >20 0 0 0 ASTM D5165m >20 0 0 0 0 Astm D5165m >20 0 <1 0 Lead ppm ASTM D5165m >20 0 <1 0 Copper ppm ASTM D5165m >20 0 0 0 0 Cadmium ppm ASTM D5165m 0 0 0 0 0 0 Astm D5165m 0 0 0 0 0 0 1 2 Cadmium ppm ASTM D5165m 0 0 0 </th <th>Oil Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Oil Age	hrs	Client Info		0	0	0
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5165m >20 2 <1 Chromium ppm ASTM D5165m >20 0 <1 0 Nickel ppm ASTM D5165m >20 0 0 0 0 Aluminum ppm ASTM D5165m >20 0 <1 0 0 Aduminum ppm ASTM D5165m >20 0 <1 0 0 Lead ppm ASTM D5165m >20 0 3 <1 0 Antimony ppm ASTM D5165m >20 0 0 0 0 Antimony ppm ASTM D5165m 0 0 0 0 0 Antimony ppm ASTM D5165m 0 0 0 0 0 AstM D5165m 0 0 0 0 0 0 0 0 0<	Oil Changed		Client Info		N/A	N/A	N/A
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Chromium ppm ASTM D5185m >20 0 <1	WEAR METALS		method	limit/base	current	history1	history2
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Silicon ppm ASTM D5185m >15 0 ▲ 55 <1	Zinc	ppm	ASTM D5185m	410	250	396	376
Sodium ppm ASTM D5185m <1	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 0 13 1 Water % ASTM D6304 >0.05 0.007 0.010 0.007 ppm Water ppm ASTM D6304 >500 80 101.8 70 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 432 3127 2712 Particles >6µm ASTM D7647 >1300 48 472 503 Particles >6µm ASTM D7647 >160 6 39 44 Particles >14µm ASTM D7647 >40 2 13 15 Particles >21µm ASTM D7647 >10 1 0 0 Particles >38µm ASTM D7647 3 1 0 0 Particles >71µm ASTM D7647 >3 1 0 0 Oil Cleanliness ISO 4406 (c) 19/17/14 16/13/10 19/16/12 19/16/13	Silicon	ppm	ASTM D5185m	>15	0	5 5	<1
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Particles >38μm ASTM D7647 >10 1 0 0 Particles >71μm ASTM D7647 >3 1 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 16/13/10 19/16/12 19/16/13 FLUID DEGRADATION method limit/base current history1 history2	Particles >14µm		ASTM D7647	>160	6	39	44
Particles >71μm ASTM D7647 >3 1 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 16/13/10 19/16/12 19/16/13 FLUID DEGRADATION method limit/base current history1 history2	Particles >21µm		ASTM D7647	>40	2	13	15
Oil Cleanliness ISO 4406 (c) >19/17/14 16/13/10 19/16/12 19/16/13 FLUID DEGRADATION method limit/base current history1 history2	Particles >38µm		ASTM D7647	>10	1	0	0
FLUID DEGRADATION method limit/base current history1 history2	Particles >71µm		ASTM D7647	>3	1	0	0
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/13/10	19/16/12	19/16/13
Acid Number (AN) mg KOH/g ASTM D8045 0.45 0.41 0.362 0.480	FLUID DEGRADA		method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g		0.45	0.41		



OIL ANALYSIS REPORT

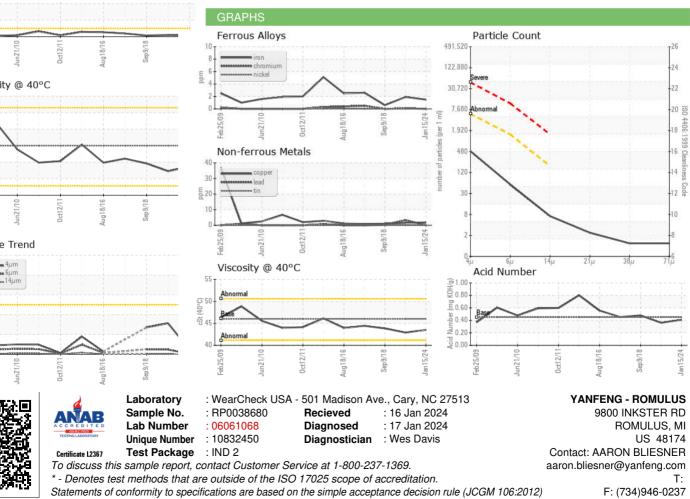






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	43.5	42.9	43.84
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						

Bottom



Contact/Location: AARON BLIESNER - PLAROM