

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id

MICROLLAM PRODUCTS HPU

Hydraulic System Fluid ESSO NUTO H ISO 46 (--- LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

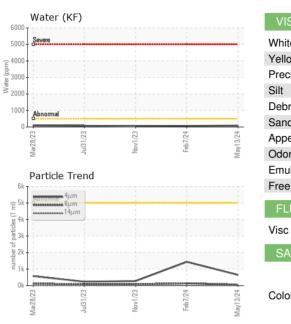
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

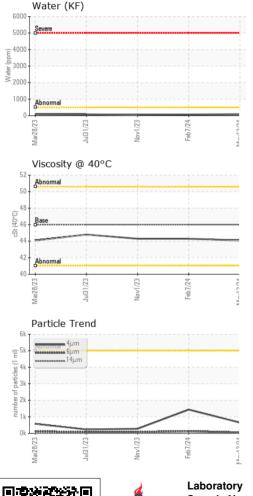
	history2
Sample Number Client Info USP0011809 USP0007215	USP0003081
Sample Date Client Info 13 May 2024 07 Feb 2024	01 Nov 2023
Machine Age hrs Client Info 0	0
Oil Age hrs Client Info 0 0	0
Oil Changed Client Info N/A N/A	N/A
Sample Status NORMAL NORMAL	NORMAL
WEAR METALS method limit/base current history1	history2
Iron ppm ASTM D5185m >20 7 8	4
Chromium ppm ASTM D5185m >20 0 <1	0
Nickel ppm ASTM D5185m >20 0 <1	0
Titanium ppm ASTM D5185m 0 <1	0
Silver ppm ASTM D5185m <1 0	0
Aluminum ppm ASTM D5185m >20 0 2	0
Lead ppm ASTM D5185m >20 0 <1	0
Copper ppm ASTM D5185m >20 5 5	4
Tin ppm ASTM D5185m >20 0 <1	0
Vanadium ppm ASTM D5185m <1 0	0
Cadmium ppm ASTM D5185m 0 <1	0
ADDITIVES method limit/base current history1	history2
Boron ppm ASTM D5185m 0 0 0	0
Barium ppm ASTM D5185m 0 0 0	0
Molybdenum ppm ASTM D5185m 0 0 1	0
Manganese ppm ASTM D5185m 0 <1	0
Magnesium ppm ASTM D5185m 5 <1 2	0
Calcium ppm ASTM D5185m 50 42 47	39
Phosphorus ppm ASTM D5185m 330 314 334	297
Zinc ppm ASTM D5185m 410 340 384	320
Sulfur ppm ASTM D5185m 2700 5984 5881	4586
CONTAMINANTS method limit/base current history1	history2
Silicon ppm ASTM D5185m >15 <1 0	0
Sodium ppm ASTM D5185m 1 0	<1
Potassium ppm ASTM D5185m >20 0 <1	0
Water % ASTM D6304 >0.05 0.008 0.006	0.005
ppm Water ppm ASTM D6304 >500 87 69	52.0
FLUID CLEANLINESS method limit/base current history1	history2
Particles >4μm ASTM D7647 >5000 645 1436	276
Particles >6μm ASTM D7647 >1300 54 141	85
Particles >14μm ASTM D7647 >160 5 12	14
Particles >21μm ASTM D7647 >40 1 3	4
Particles >38μm ASTM D7647 >10 0 0	0
Particles >71μm ASTM D7647 >3 0 0	0
Oil Cleanliness ISO 4406 (c) >19/17/14 17/13/10 18/14/11	15/14/11
Oil Cleanliness ISO 4406 (c) >19/17/14 17/13/10 18/14/11	
FLUID DEGRADATION method limit/base current history1	history2

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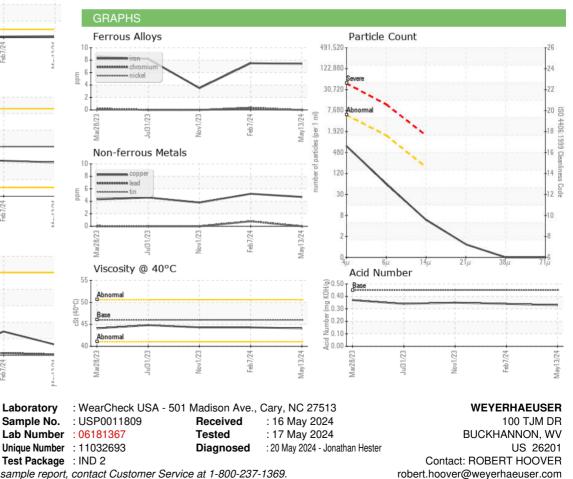


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	44.1	44.3	44.3
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
						HPU
Color						A AND



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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Certificate 12367

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