

OIL ANALYSIS REPORT

Sample Rating Trend

MACHINE 28 (S/N 77138)

Hydraulic System Fluid ESSO NUTO H ISO 46 (450 GAL)

DIAGNOSIS

Recommendation

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

Wear

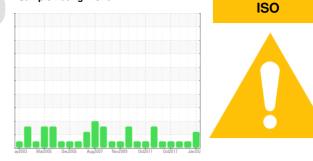
All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

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	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0038670	RP0010893	RP99302
Sample Date		Client Info		15 Jan 2024	18 Jan 2021	09 Sep 2018
Machine Age) // C	Client Info		0	0	09 Sep 2018
Oil Age	yrs yrs	Client Info		0	0	0
Oil Changed	yı S	Client Info		N/A	N/A	0 N/A
Sample Status		Cilent Inio		ABNORMAL	NORMAL	NORMAL
÷				-	-	-
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	3	2	3
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
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	0	0	<1
Lead	ppm	ASTM D5185m	>20	0	3	<1
Copper	ppm	ASTM D5185m	>20	6	7	9
Tin	ppm	ASTM D5185m	>20	1	0	<1
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	5	0	0	0
Calcium	ppm	ASTM D5185m	50	11	15	39
Phosphorus	ppm	ASTM D5185m	330	345	366	328
Zinc	ppm	ASTM D5185m	410	416	376	371
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Sodium	ppm	ASTM D5185m		2	<1	<1
Potassium	ppm	ASTM D5185m	>20	0	8	1
Water	%	ASTM D6304		0.011	0.012	0.024
ppm Water	ppm	ASTM D6304		111	129.4	240
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	21156	3320	686
Particles >6µm		ASTM D7647		1868	656	266
Particles >14µm		ASTM D7647	>160	26	48	52
Particles >21µm		ASTM D7647		4	13	25
Particles >38µm		ASTM D7647	>10	0	0	3
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 22/18/12	19/17/13	17/15/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.45	0.43	0.390	0.474
	ing itori/g	A0 I M D0040	0.40	0.43	0.030	0.4/4

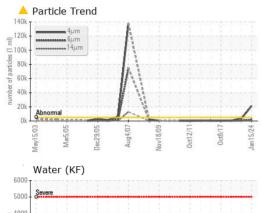


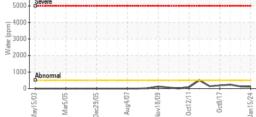
Acid Number

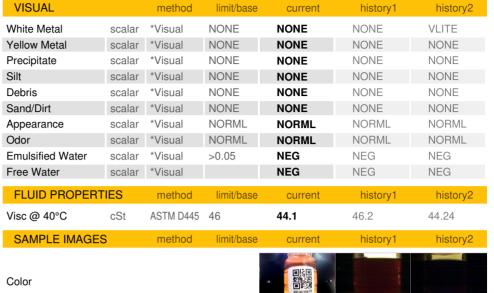
0.80

0.70 (B/H0.60

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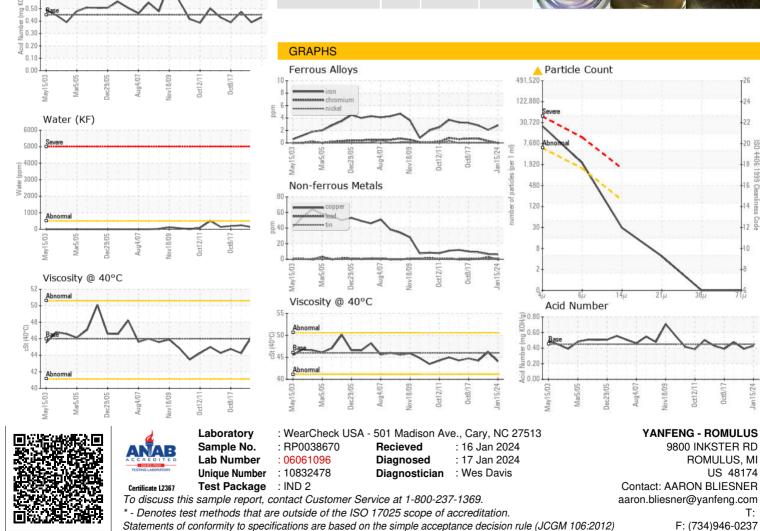








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