

OIL ANALYSIS REPORT

Sample Rating Trend



MACHINE 10 (S/N 205308)

Hydraulic System

ESSO NUTO H ISO 46 (--- LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

There is a light 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 condition of the oil is suitable for further service.

		ın2004 Jur	2005 Apr2006 Mar2	008 Jun2010 Jun2014 S	ep2018	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0038679	RP0007366	RP99306
Sample Date		Client Info		15 Jan 2024	18 Jan 2021	09 Sep 2018
Machine Age	yrs	Client Info		0	0	0
Oil Age	yrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	2	2	<1
Chromium	ppm	ASTM D5185m	>20	0	0	<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	<1	0
Lead	ppm	ASTM D5185m	>20	0	3	0
Copper	ppm	ASTM D5185m	>20	3	8	5
Tin	ppm	ASTM D5185m	>20	0	<1	<1
Antimony	ppm	ASTM D5185m			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	0	0	<1	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	5	0	<1	0
Calcium	ppm	ASTM D5185m	50	26	1	1
Phosphorus	ppm	ASTM D5185m	330	346	338	315
Zinc	ppm	ASTM D5185m	410	437	308	377
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Sodium	ppm	ASTM D5185m		<1	<1	0
Potassium	ppm	ASTM D5185m	>20	0	3	<1
Water	%	ASTM D6304	>0.05	0.009	0.049	0.005
ppm Water	ppm	ASTM D6304	>500	98	490	50
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ 7621		△ 15996
Particles >6µm		ASTM D7647	>1300	1126		▲ 5067
Particles >14μm		ASTM D7647	>160	48		▲ 708
Particles >21μm		ASTM D7647	>40	6		<u> </u>
Particles >38μm		ASTM D7647	>10	1		4
Particles >71μm		ASTM D7647	>3	0		0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	2 0/17/13		<u>\$\text{\Delta}\$ 21/20/17</u>
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	ma K∩U/a	VSTM D804E	0.45	0.57	0.308	0.475

Acid Number (AN)

mg KOH/g ASTM D8045 0.45

0.308

0.57

0.475



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