

OIL ANALYSIS REPORT

Sample Rating Trend

m/2022 Jun/2022 Say/2022 Nov/2022 Feb/2023 May/2023 Aug/2023 Dos/202





UTILITIES Machine Id FILTRATION SYSTEM FILTERED

Component **Hydraulic System**

ESSO NUTO H ISO 46 (4000 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Moor

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. 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.

99/2022 Jun2022 Sup2022 New2022 Feb.2023 May2023 Aug2023 Dec251						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0034990	RP0039275	RP0038537
Sample Date		Client Info		05 Dec 2023	07 Nov 2023	27 Sep 2023
Machine Age	days	Client Info		0	0	0
Oil Age	days	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	0	0	0
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	0	0	0
Tin	ppm	ASTM D5185m	>20	0	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	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	5	1	0	2
Calcium	ppm	ASTM D5185m	50	52	36	51
Phosphorus	ppm	ASTM D5185m	330	313	290	342
Zinc	ppm	ASTM D5185m	410	422	414	441
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	1	1
Sodium	ppm	ASTM D5185m		0	<1	<1
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304	>0.05	0.004	0.003	0.004
ppm Water	ppm	ASTM D6304	>500	49	25.5	48.6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	658	400	1861
Particles >6µm		ASTM D7647	>1300	139	108	470
Particles >14μm		ASTM D7647	>160	8	10	30
Particles >21µm		ASTM D7647	>40	2	3	8
Particles >38μm		ASTM D7647	>10	0	0	0
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/14/10	16/14/10	18/16/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.45	0.35	0.36	0.41



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