

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **Dyno Side A** Component **Main Hydraulic System** Fluid ESSO NUTO H ISO 46 (250 GAL)

DIAGNOSIS

Area CTF

Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: fluid and filters changed in August 2022. Filters changed again in August 2023.)

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates present in the oil.

Fluid Condition

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

SAMPLE INFORM	ΛΑΤΙΟΝ	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0810912	WC0500748	WC0500742
Sample Date		Client Info		28 Aug 2023	12 Aug 2022	04 Dec 2020
Machine Age		Client Info		34	32	0
Oil Age		Client Info		1	0	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				ATTENTION	ATTENTION	NORMAI
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WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	<1	<1	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	4	<1	<1
Tin	ppm	ASTM D5185m	>20	0	0	0
Antimony	ppm	ASTM D5185m				0
Vanadium	maa	ASTM D5185m		0	0	0
Cadmium	mag	ASTM D5185m		0	0	0
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ADDITIVES		method	limit/base	current	nistory i	nistory2
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	0	0
Magnesium	ppm	ASTM D5185m	5	<1	1	0
Calcium	ppm	ASTM D5185m	50	51	56	53
Phosphorus	ppm	ASTM D5185m	330	332	363	376
Zinc	ppm	ASTM D5185m	410	412	498	459
Sulfur	ppm	ASTM D5185m	2700	7173	4755	1255
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	<1	<1
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304	>0.05	0.002		
ppm Water	ppm	ASTM D6304	>500	17.3		
FLUID CLEANLIN	IESS	method	limit/base	current	historv1	historv2
Particles \4um		ASTM D7647	>640	A 890	538	373
Particles Sum		ASTM D7647	>160	301	149	117
Particles \14um		ASTM D76/7	>20	▲ 24	▲ 21	21
Particles 21um		ASTM D76/7	~4	A 8	▲ 7	6
Particles S8um			~3	0	0	2
Particles > 71um		ASTM D7647	>3	0	0	-
Oil Cleanliness		ISO 4/06 (a)	>5	17/15/10	16/14/12	16/14/12
		100 4400 (0)	210/14/11	- 17/13/12	10/14/12	10/14/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.45	0.25	0.23	0.316
8:03:33) Rev: 1	Submitted By: TECHNICIAN ACCOUNT					

Report Id: MICGRE [WUSCAR] 05938893 (Generated: 02/09/2024 08:03:33) Rev: 1

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Abnorma

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	44.0	43.9	44.4
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
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Bottom						



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