

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id CENTRAL

Component **Hydraulic System**

ESSO NUTO H ISO 46 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

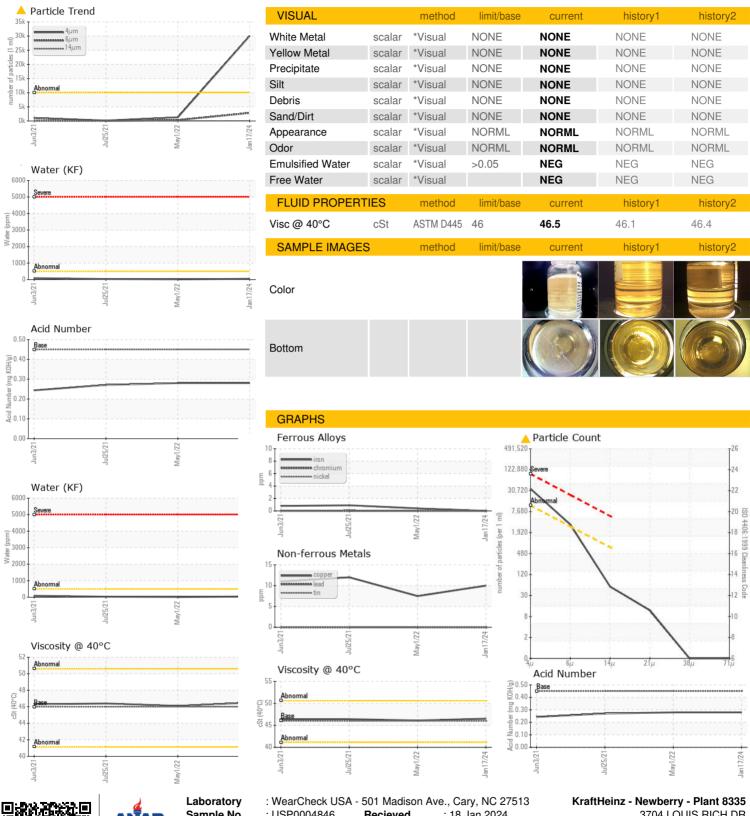
Fluid Condition

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

		Jun202	1 Jul2021	May2022 Ja	n2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0004846	USP235780	USP217759
Sample Date		Client Info		17 Jan 2024	01 May 2022	25 Jul 2021
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	<1	<1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	10	8	12
Tin	ppm	ASTM D5185m	>20	0	0	0
Antimony	ppm	ASTM D5185m				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	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	5	1	6	3
Calcium	ppm	ASTM D5185m	50	54	62	53
Phosphorus	ppm	ASTM D5185m	330	344	318	305
Zinc	ppm	ASTM D5185m	410	438	433	422
Sulfur	ppm	ASTM D5185m	2700	804	753	775
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	0	<1
Sodium	ppm	ASTM D5185m		<1	0	1
Potassium	ppm	ASTM D5185m	>20	<1	1	0
Water	%	ASTM D6304	>0.05	0.004	0.002	0.003
ppm Water	ppm	ASTM D6304	>500	45	17.1	33.2
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ 30063	1301	147
Particles >6µm		ASTM D7647	>2500	2864	323	30
Particles >14µm		ASTM D7647	>640	48	15	2
Particles >21µm		ASTM D7647	>160	10	0	0
Particles >38µm		ASTM D7647	>40	0	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/16	<u>^</u> 22/19/13	18/16/11	14/12/9
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.45	0.28	0.28	0.271
	- 0					



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Certificate L2367

Sample No. Lab Number **Unique Number**

Test Package

: USP0004846 : 06064404

: 10835786 : IND 2

Recieved : 18 Jan 2024 Diagnosed : 22 Jan 2024 Diagnostician : Doug Bogart 3704 LOUIS RICH DR NEWBERRY, SC US 29108

Contact:

T: F:

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)