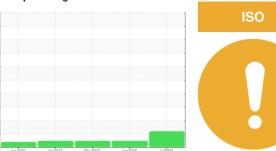


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

X-Ray Line 1 Marlen HPU

Hydraulic System

ESSO NUTO H ISO 68 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate 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.

		Jun 2021	Jan 2022	May2022 Jan2024	Jul2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0015034	USP0004839	USP235789
Sample Date		Client Info		17 Jul 2024	17 Jan 2024	01 May 2022
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				ATTENTION	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	2	<1
Chromium	ppm	ASTM D5185m	>20	0	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	0	0	0
Lead	ppm	ASTM D5185m	>20	0	1	<1
Copper	ppm	ASTM D5185m	>20	4	13	2
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	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	5	0	0	<1
Calcium	ppm	ASTM D5185m	50	35	22	53
Phosphorus	ppm	ASTM D5185m	330	312	346	329
Zinc	ppm	ASTM D5185m	420	383	372	439
Sulfur	ppm	ASTM D5185m	3100	4103	4063	4026
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	0	0
Sodium	ppm	ASTM D5185m		1	<1	0
Potassium	ppm	ASTM D5185m	>20	0	<1	1
Water	%	ASTM D6304	>0.05	0.009	0.004	0.002
ppm Water	ppm	ASTM D6304	>500	90	41	19.3
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	7220	4836	2221
Particles >6µm		ASTM D7647	>1300	1438	734	186
Particles >14µm		ASTM D7647	>160	41	35	4
Particles >21µm		ASTM D7647	>40	6	10	0
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	0 20/18/13	19/17/12	18/15/9
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	.40	0.28	0.21	0.36



OIL ANALYSIS REPORT







Laboratory Sample No. : USP0015034 Lab Number : 06240378

Unique Number : 11129212

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Jul 2024

Tested : 19 Jul 2024 Diagnosed : 19 Jul 2024 - Doug Bogart KraftHeinz - Newberry - Plant 8335 3704 LOUIS RICH DR

NEWBERRY, SC US 29108 Contact:

Test Package : IND 2 Certificate 12367 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)

T:

F: