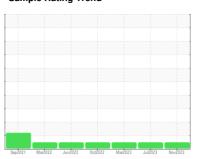


# **OIL ANALYSIS REPORT**

## Sample Rating Trend



**NORMAL** 



# PARALLAM HANDLING

Component

**Hydraulic System** 

ESSO NUTO H ISO 46 (--- LTR)

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

### **Fluid Condition**

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

		Sep 2021	Mar2022 Jun2022	Oct2022 Mar2023 Jul2023	Nov2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0003085	USP0000862	USP219387
Sample Date		Client Info		01 Nov 2023	31 Jul 2023	28 Mar 2023
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				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	2	2
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	<1	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	3	2	3
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	<1	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	5	0	3	3
Calcium	ppm	ASTM D5185m	50	51	60	65
Phosphorus	ppm	ASTM D5185m	330	306	334	399
Zinc	ppm	ASTM D5185m	410	382	428	482
Sulfur	ppm	ASTM D5185m	2700	4847	5362	6253
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	0	2
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.05	0.005	0.002	0.005
ppm Water	ppm	ASTM D6304	>500	54.4	19.2	55.5
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	135	52	187
Particles >6µm		ASTM D7647	>1300	55	22	53
Particles >14µm		ASTM D7647	>160	7	4	11
Particles >21µm		ASTM D7647	>40	3	1	4
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	14/13/10	13/12/9	15/13/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.45	0.34	0.34	0.37



## OIL ANALYSIS REPORT





Certificate L2367

Lab Number

**Unique Number** 

: 05999070 : 10727430 Test Package : IND 2

Diagnosed : 07 Nov 2023

Diagnostician : Doug Bogart

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)

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