

PROBLEM SUMMARY

Sample Rating Trend

ISO

ACID NEUTRALIZATION HYDRAULIC

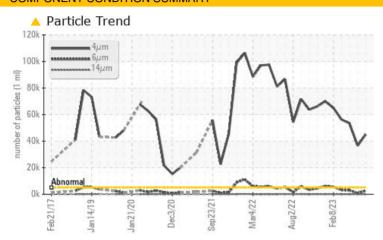
HYDRAULIC UNIT ON SLUDGE CONVEYOR FILTER PRESS (S/N 16-6520-0122)

Component

Tank Hydraulic System

ESSO NUTO H ISO 46 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS										
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL					
Particles >4µm	ASTM D7647	>5000	44954	<u>▲</u> 36645	<u></u> 53357					
Particles >6μm	ASTM D7647	>1300	<u>^</u> 2642	899	△ 2927					
Oil Cleanliness	ISO 4406 (c)	>19/17/14	23/19/13	<u>^</u> 22/17/11	23/19/11					

Customer Id: OUTCALAL Sample No.: RP0035117 Lab Number: 05860767 Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

02 May 2023 Diag: Doug Bogart

ISO



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



30 Mar 2023 Diag: Doug Bogart

WEAR



No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



27 Feb 2023 Diag: Doug Bogart

WEAR



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend

ISO

ACID NEUTRALIZATION HYDRAULIC

HYDRAULIC UNIT ON SLUDGE CONVEYOR FILTER PRESS (S/N 16-6520-0122)

Tank Hydraulic System

ESSO NUTO H ISO 46 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

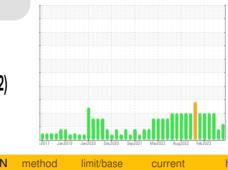
All component wear rates are normal.

Contamination

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

Fluid Condition

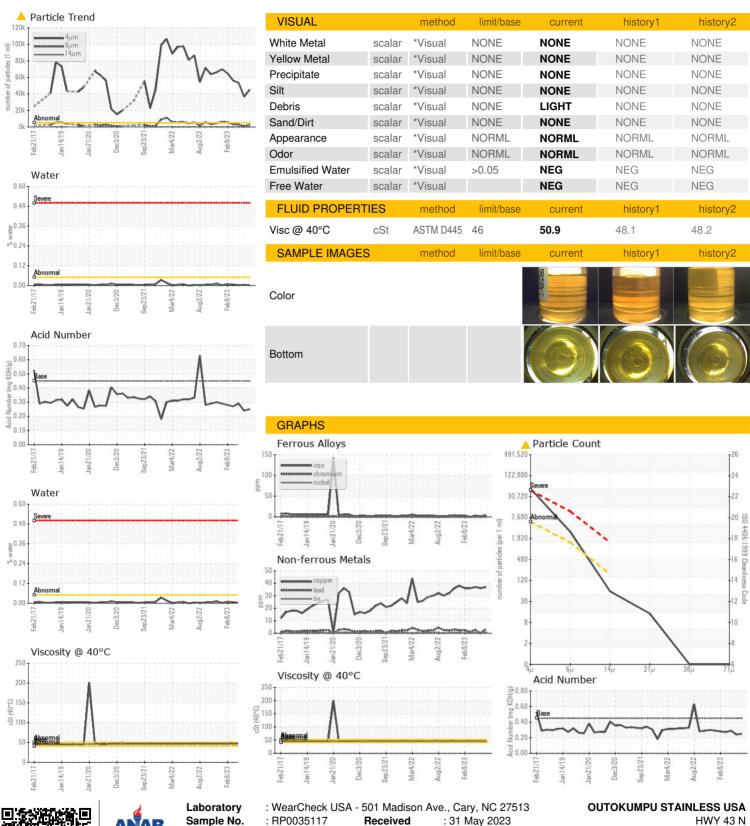
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0035117	RP0034586	RP0030338
Sample Date		Client Info		30 May 2023	02 May 2023	30 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				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	4	1	3
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>20	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	6	<1
Lead	ppm	ASTM D5185m	>20	3	0	3
Copper	ppm	ASTM D5185m	>20	37	36	△ 37
Tin	ppm	ASTM D5185m	>20	<1	0	<1
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	1	4	<1
Calcium	ppm	ASTM D5185m	50	43	40	45
Phosphorus	ppm	ASTM D5185m	330	319	345	370
Zinc	ppm	ASTM D5185m	410	414	429	435
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	<1	4
Sodium	ppm	ASTM D5185m	>10	0	0	<1
Potassium	ppm		>20	<1	0	0
Water	%	ASTM D6304	>0.05	0.003	0.004	0.003
ppm Water	ppm	ASTM D6304	>500	27.4	46.5	38.1
FLUID CLEANLIN		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> 44954</u>	△ 36645	▲ 53357
Particles >6µm		ASTM D7647	>1300	▲ 2642	899	△ 2927
Particles >14μm		ASTM D7647	>160	52	11	20
Particles >21μm		ASTM D7647		12	2	7
Particles >38μm		ASTM D7647	>10	0	0	1
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	△ 23/19/13	△ 22/17/11	△ 23/19/11
FLUID DEGRADA	MOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.45	0.25	0.24	0.29



OIL ANALYSIS REPORT







Certificate L2367

Sample No. Lab Number **Unique Number**

: RP0035117 : 05860767 : 10495232 Test Package : IND 2

Received : 31 May 2023 : 02 Jun 2023 Diagnosed Diagnostician : Don Baldridge

To discuss this sample report, contact Customer Service at 1-800-237-1369.

CALVERT, AL US 36513 Contact: MARIO JOHNSON

Mario.johnson@outokumpu.com

* - 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: (251)321-4105 F: x: