

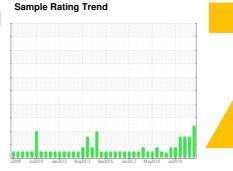
# **OIL ANALYSIS REPORT**

# AREA I [500168796] Machine Id TOLHURST S1001A (S/N C-48-8)

Component

**Hydraulic System** 

ESSO NUTO H ISO 68 (20 GAL)





## DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

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

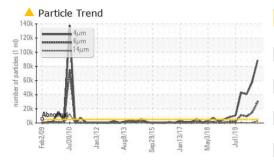
#### **Fluid Condition**

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

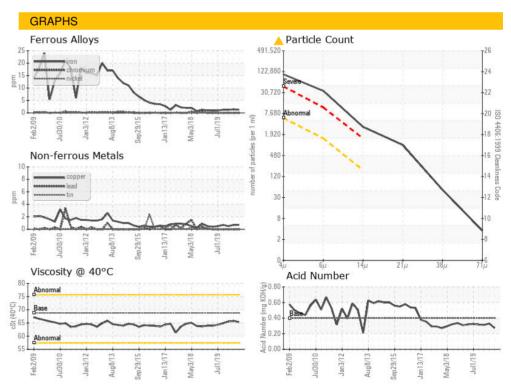
		52009 Jul20	10 Jan2012 Aug2013	Sep2015 Jan2017 May2018	Jul2019	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		WC0487758	WC0428785	WC0395564
Sample Date		Client Info		30 Jul 2020	08 Apr 2020	09 Jan 2020
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client 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	history 1	history 2
Iron	ppm	ASTM D5185m	>20	1	1	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	<1	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	<1	<1
Tin	ppm	ASTM D5185m	>20	0	0	0
Antimony	ppm	ASTM D5185m		0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	0	10	0
Barium	ppm	ASTM D5185m	0	0	<1	<1
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	49	59	51
Phosphorus	ppm	ASTM D5185m	330	321	352	326
Zinc	ppm	ASTM D5185m	420	436	491	408
Sulfur	ppm	ASTM D5185m	3100	5921	6311	8230
CONTAMINANTS	)	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>15	0	<1	<1
Sodium	ppm	ASTM D5185m		<1	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647	>5000	<b>88678</b>	<b>△</b> 57770	<b>4</b> 0677
Particles >6µm		ASTM D7647	>1300	<b>29926</b>	<b>△</b> 14689	<b>△</b> 9263
Particles >14µm		ASTM D7647	>160	<b>2782</b>	<b>4</b> 08	▲ 308
Particles >21µm		ASTM D7647	>40	<u> </u>	<b>△</b> 67	<b>△</b> 56
. a			10		Е	0
Particles >38µm		ASTM D7647	>10	<b>44</b>	5	9
		ASTM D7647 ASTM D7647	>10	▲ 44 ▲ 3	0	0
Particles >38µm						
Particles >38µm Particles >71µm	ATION	ASTM D7647	>3	<u>^</u> 3	0	0



## **OIL ANALYSIS REPORT**



VISUAL		method	limit/base	current	history 1	history 2
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	LIGHT	VLITE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	68.8	65.3	65.7	65.5
SAMPLE IMAGES	3	method	limit/base	current	history 1	history 2
Color				Grand Internal home		
Bottom						







Certificate L2367

Laboratory Sample No. Lab Number

: WC1234567 : 01234567 Unique Number : 12345678 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 27 Aug 2020 Diagnosed

: 28 Aug 2020 Diagnostician : Don Baldridge

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) **Cusany Logistics Inc.** 1212 Industrial Place

Centerville, OH USA 75900

Contact: Jim Leduc jim.leduc@cusanylogisticsinc.com

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Report Id: CUSANY [WUSCAR] 01234567 (Generated: 05/04/2023 10:49:16) Rev: 1

Contact/Location: Sarah Euhler - Base Plant