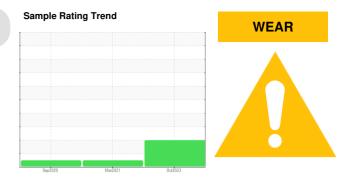


# **PROBLEM SUMMARY**

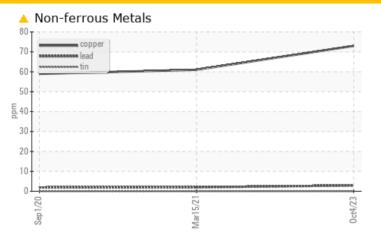
# LIQUID ROOM LINJ-D-01 (S/N 804845)

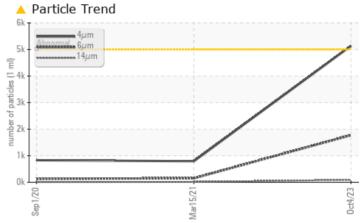
**Hydraulic System** 

ESSO NUTO H ISO 46 (300 LTR)



# **COMPONENT CONDITION SUMMARY**





# RECOMMENDATION

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

PROBLEMATIC TEST RESULTS								
Sample Status				ATTENTION	NORMAL	NORMAL		
Copper	ppm	ASTM D5185(m)	>20	<u>^</u> 73	61	59		
Particles >4µm		ASTM D7647	>5000	<u>▲</u> 5135	793	830		
Particles >6µm		ASTM D7647	>1300	<u> </u>	151	126		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>20/18/14</b>	17/14/11	17/14/10		

Customer Id: FRETIL Sample No.: WC0739311 Lab Number: 02587588 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

# **RECOMMENDED ACTIONS**

Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.

# HISTORICAL DIAGNOSIS

15 Mar 2021 Diag: Kevin Marson

#### NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



# 01 Sep 2020 Diag: Kevin Marson

#### NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



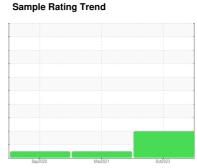


# **OIL ANALYSIS REPORT**

# LIQUID ROOM LINJ-D-01 (S/N 804845)

Hydraulic System

ESSO NUTO H ISO 46 (300 LTR)





# **DIAGNOSIS**

## Recommendation

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

Copper ppm levels are noted. All other component wear rates are normal.

## Contamination

There is a light 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.

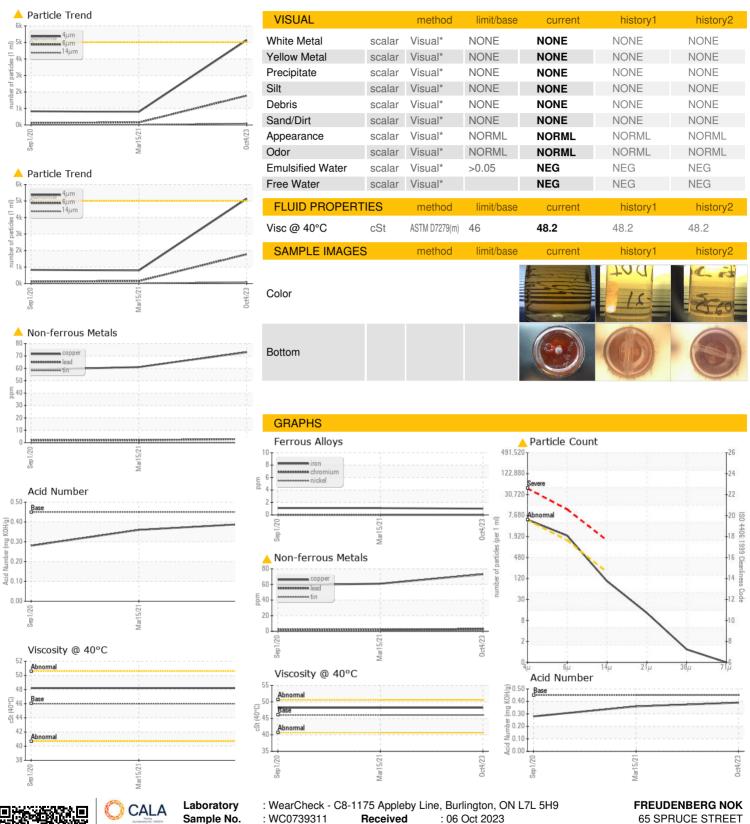
		Sep	2020	Mar2021 Oct20	23	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0739311	WC0556294	WC0371068
Sample Date		Client Info		04 Oct 2023	15 Mar 2021	01 Sep 2020
Machine Age	hrs	Client Info		5783	2962	2636
Oil Age	hrs	Client Info		0	2962	2636
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				ATTENTION	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	1	1	1
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>20	3	2	2
Copper	ppm	ASTM D5185(m)	>20	<b>^</b> 73	61	59
Tin	ppm	ASTM D5185(m)	>20	0	0	0
Antimony	ppm	ASTM D5185(m)		0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	<1	<1	<1
Barium	ppm	ASTM D5185(m)	0	<1	<1	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	5	0	<1	<1
Calcium	ppm	ASTM D5185(m)	50	113	113	114
Phosphorus	ppm	ASTM D5185(m)	330	325	310	312
Zinc	ppm	ASTM D5185(m)	410	356	375	378
Sulfur	ppm	ASTM D5185(m)	2700	1313	1340	1362
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	4	3	3
Sodium	ppm	ASTM D5185(m)		<1	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u>▲</u> 5135	793	830
Particles >6µm		ASTM D7647	>1300	<u> </u>	151	126
Particles >14μm		ASTM D7647	>160	89	14	8
Particles >21µm		ASTM D7647	>40	11	5	2
Particles >38µm		ASTM D7647	>10	1	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 20/18/14	17/14/11	17/14/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

0.36

0.28



# OIL ANALYSIS REPORT





ISO 17025:2017 Accredited

Laboratory

Sample No. Lab Number **Unique Number** 

: WC0739311 : 02587588

: 5656654 Test Package : IND 2

: 06 Oct 2023 Received Diagnosed : 10 Oct 2023 : Kevin Marson

Diagnostician

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

**65 SPRUCE STREET** 

TILLSONBURG, ON **CA N4G 4G7** 

Contact: Joe Ostrowercha imo@fnst.com

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