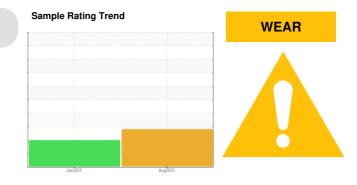


# **PROBLEM SUMMARY**

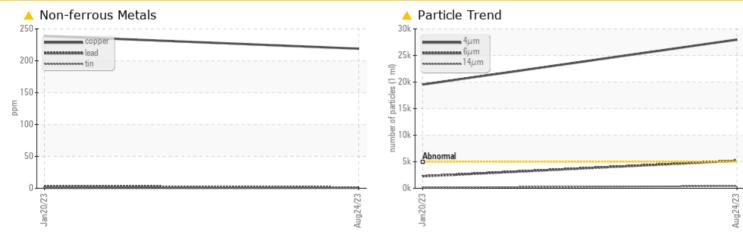


## Machine Id MILACRON INJECTION 3 (S/N TB201DB010023)

Hydraulic System

TULCO LUBSOIL SUPER HYDRAULIC AW 46 (--- GAL)

## COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL				
Copper	ppm	ASTM D5185m	>20	<u> </u>	<b>2</b> 39				
Particles >4µm		ASTM D7647	>5000	<b>A</b> 27990	<b>1</b> 9537				
Particles >6µm		ASTM D7647	>1300	<u> </u>	<b>A</b> 2257				
Particles >14µm		ASTM D7647	>160	<b>407</b>	129				
Particles >21µm		ASTM D7647	>40	<u> </u>	36				
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 22/20/16	🔺 21/18/14				

Customer Id: CHAROCTX Sample No.: TO50001276 Lab Number: 05938888 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 <u>customerservice@wearcheck.com</u>

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Filter			?	We recommend you service the filters on this component if applicable.		
Resample			?	We recommend an early resample to monitor this condition.		

### HISTORICAL DIAGNOSIS



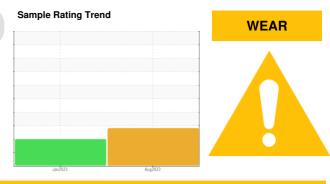
#### 20 Jan 2023 Diag: Jonathan Hester

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. The copper level is abnormal. 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**



#### Machine Id MILACRON INJECTION 3 (S/N TB201DB010023) Component

**Hydraulic System** 

TULCO LUBSOIL SUPER HYDRAULIC AW 46 (--- GAL)

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		TO50001276	TO50001054	
We recommend you service the filters on this	Sample Date		Client Info		24 Aug 2023	20 Jan 2023	
component if applicable. We recommend an early	Machine Age	hrs	Client Info		0	0	
resample to monitor this condition.	Oil Age	hrs	Client Info		0	0	
A Wear	Oil Changed		Client Info		N/A	N/A	
The copper level is abnormal.	Sample Status				ABNORMAL	ABNORMAL	
Contamination There is a high amount of particulates present in	WEAR METALS		method	limit/base	current	history1	history2
the oil.	Iron	ppm	ASTM D5185m	>20	5	5	
Fluid Condition	Chromium	ppm	ASTM D5185m	>20	1	2	
The AN level is acceptable for this fluid. The	Nickel	ppm	ASTM D5185m	>20	0	0	
condition of the oil is suitable for further service.	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	<1	
	Aluminum	ppm	ASTM D5185m	>20	<1	<1	
	Lead	ppm	ASTM D5185m	>20	1	3	
	Copper	ppm	ASTM D5185m	>20	<u> </u>	<b>A</b> 239	
	Tin	ppm	ASTM D5185m		<1	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	Cadmium	ppm	ASTM D5185m		0	0	
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m		0	0	
	Barium	ppm	ASTM D5185m		0	<1	
	Molybdenum	ppm	ASTM D5185m		0	3	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m		57	56	
	Calcium	ppm	ASTM D5185m		40	47	
	Phosphorus	ppm	ASTM D5185m	450	296	334	
	Zinc	ppm	ASTM D5185m	540	280	293	
	Sulfur	ppm	ASTM D5185m	1825	1740	1538	
	CONTAMINANTS	3	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>15	5	1	
	Sodium	ppm	ASTM D5185m		3	4	
	Potassium	ppm	ASTM D5185m	>20	0	0	
	Water	%	ASTM D6304	>0.05	0.001	0.001	
	ppm Water	ppm	ASTM D6304		1.2	13.9	
	FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
	Particles >4µm		ASTM D7647		<b>A</b> 27990	<b>1</b> 9537	
	Particles >6µm		ASTM D7647	>1300	<u> </u>	<u> </u>	
	Particles >14µm		ASTM D7647	>160	<b>407</b>	129	
	Particles >21µm		ASTM D7647	>40	<u> </u>	36	
	Particles >38µm		ASTM D7647	>10	7	6	
	Particles >71µm		ASTM D7647	>3	0	0	
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 22/20/16	▲ 21/18/14	
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	.7	0.36	0.33	



# **OIL ANALYSIS REPORT**

limit/base

limit/base

limit/base

491.52 122.88

30.72

1.920 articles

480

120

31

(B) 0.80 0.60 (mg KOH/d) Ba

0.40

틀 0.20

0.00 PC

Aug24/23 (per 1

Aug24/23

Aug24/23

current

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

curren

current

Particle Count

Acid Number

NEG

NEG

44.1

6.7

104

history1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

history1

NFG

NEG

46.0

6.9

105

history2

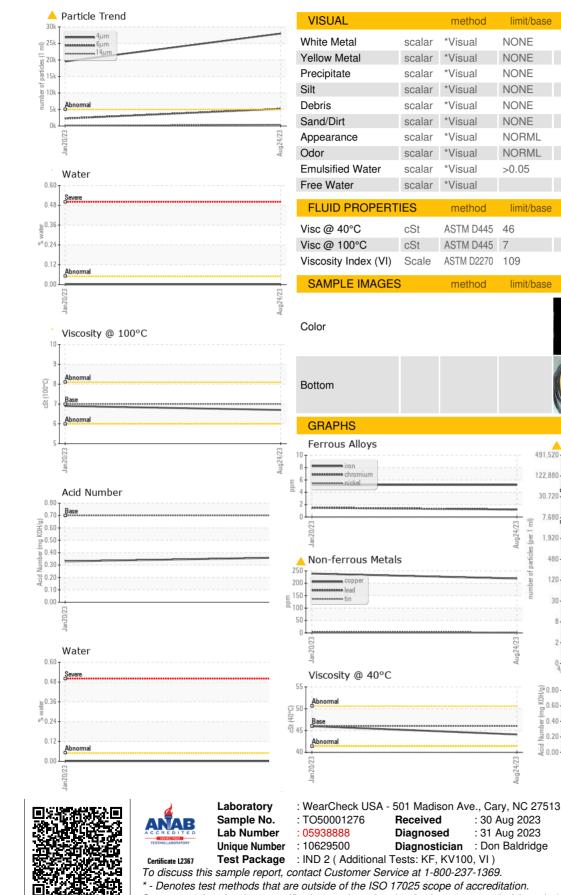
history

history2

no image

no image

20 2



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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