

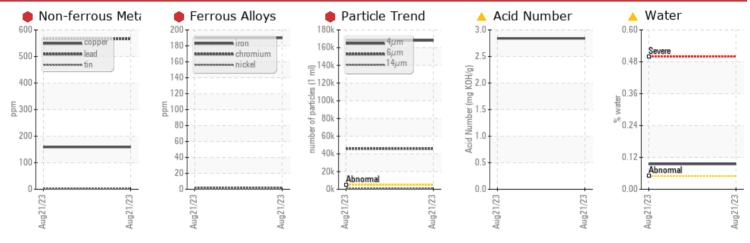
PROBLEM SUMMARY

Sample Rating Trend



Machine Id 7038 Component **Hydraulic System** NOT GIVEN (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample. Corrected for adding COC Flash Point.

Sample Status SEVERE Iron ppm ASTM D5185m >20< 190 Lead ppm ASTM D5185m >20 566 Copper ppm ASTM D5185m >20 159 Water % ASTM D6304 >0.05 ▲ 0.095 ppm Water ppm ASTM D6304 >500 ▲ 951.1 Particles >4µm ASTM D7647 >5000 ■ 168112 Particles >6µm Image: ASTM D7647 >1300 ● 45871	PROBLEMATIC TEST RESULTS								
Lead ppm ASTM D5185m >20 566 Copper ppm ASTM D5185m >20 159 Water % ASTM D6304 >0.05 ▲ 0.095 ppm Water ppm ASTM D6304 >500 ▲ 951.1 Particles >4µm ASTM D7647 >5000 ■ 168112 Particles >6µm ASTM D7647 >1300 ● 45871	Sample Status				SEVERE				
Copper ppm ASTM D5185m >20 159 Water % ASTM D6304 >0.05 ▲ 0.095 ppm Water ppm ASTM D6304 >500 ▲ 951.1 Particles >4µm ASTM D7647 >5000 ■ 168112 Particles >6µm ASTM D7647 >1300 ● 45871	Iron	ppm	ASTM D5185m	>20	🛑 190				
Water % ASTM D6304 >0.05 ▲ 0.095 ppm Water ppm ASTM D6304 >500 ▲ 951.1 Particles >4µm ASTM D7647 >5000 ● 168112 Particles >6µm ASTM D7647 >1300 ● 45871	Lead	ppm	ASTM D5185m	>20	9 566				
ppm Water ppm ASTM D6304 >500 ▲ 951.1 Particles >4μm ASTM D7647 >5000 ● 168112 Particles >6μm ASTM D7647 >1300 ● 45871	Copper	ppm	ASTM D5185m	>20	🛑 159				
Particles >4μm ASTM D7647 >5000 ● 168112 Particles >6μm ASTM D7647 >1300 ● 45871	Water	%	ASTM D6304	>0.05	A 0.095				
Particles >6μm ASTM D7647 >1300 45871	ppm Water	ppm	ASTM D6304	>500	<u> </u>				
	Particles >4µm		ASTM D7647	>5000	🛑 168112				
	Particles >6µm		ASTM D7647	>1300	45871				
Particles >14μm ASTM D7647 >160 Δ 595	Particles >14µm		ASTM D7647	>160	🔺 595				
Particles >21μm ASTM D7647 >40 ▲ 63	Particles >21µm		ASTM D7647	>40	<mark>ം</mark> 63				
Oil Cleanliness ISO 4406 (c) >19/17/14 • 25/23/16	Oil Cleanliness		ISO 4406 (c)	>19/17/14	• 25/23/16				
Acid Number (AN) mg KOH/g ASTM D8045 🔺 2.84	Acid Number (AN)	mg KOH/g	ASTM D8045		<u> </u>				

Customer Id: METYOU Sample No.: WC05932761 Lab Number: 05932761 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

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

RECOMMENDED AC	CTIONS			
Action	Status	Date	Done By	Description
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.
Change Filter			?	We recommend you service the filters on this component.
Resample			?	Resample in 30-45 days to monitor this situation.
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample.
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.
Check Water Access			?	We advise that you check for the source of water entry.
Check Seals			?	Check seals and/or filters for points of contaminant entry.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

WEAR

Machine Id **7038** Component Hydraulic System Fluid NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample. Corrected for adding COC Flash Point.

🛑 Wear

Copper, iron and lead ppm levels are severe. Cylinder or oil pump wear indicated. Bearing wear is indicated. Oil cooler core leaching or motor piston wear is indicated.

Contamination

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

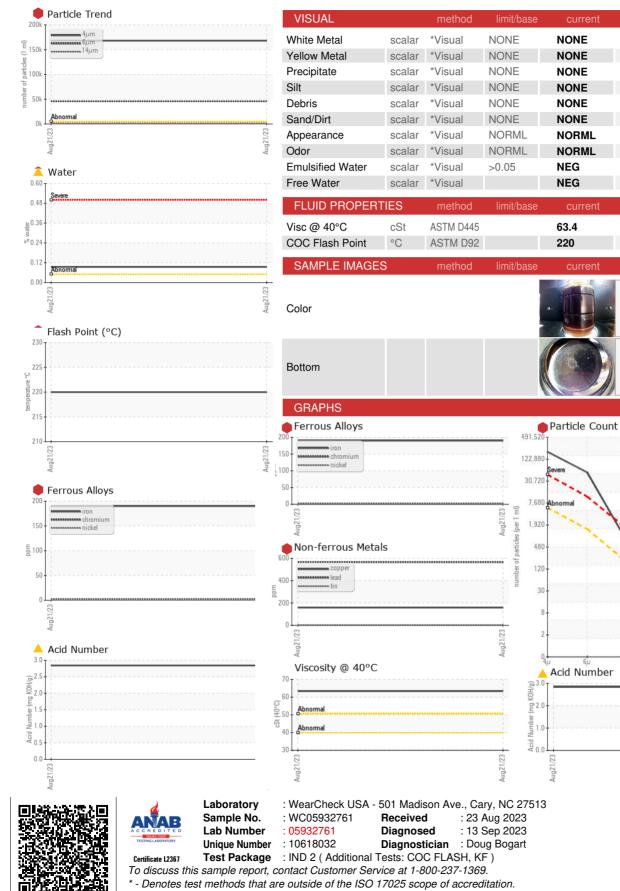
Fluid Condition

The AN level is above the recommended limit. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC05932761		
Sample Date		Client Info		21 Aug 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	e 190		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>20	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>20	9		
Lead	ppm	ASTM D5185m	>20	9 566		
Copper	ppm	ASTM D5185m	>20	• 159		
Tin	ppm	ASTM D5185m	>20	2		
Vanadium	ppm	ASTM D5185m		- <1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		110		
Magnesium	ppm	ASTM D5185m		9		
Calcium	ppm	ASTM D5185m		7		
Phosphorus	ppm	ASTM D5185m		39		
Zinc	ppm	ASTM D5185m		225		
Sulfur	ppm	ASTM D5185m		20495		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1		
Sodium	ppm	ASTM D5185m		12		
Potassium	ppm	ASTM D5185m	>20	7		
Water	%	ASTM D6304	>0.05	<u> </u>		
ppm Water	ppm	ASTM D6304	>500	4 951.1		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	• 168112		
Particles >6µm		ASTM D7647	>1300	• 45871		
Particles >14µm		ASTM D7647	>160	<u> </u>		
Particles >21µm		ASTM D7647	>40	<mark>/</mark> 63		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	• 25/23/16		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		2.84		



OIL ANALYSIS REPORT



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

Contact/Location: AUSTIN AMARAL - METYOU

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METALUBE INC

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