

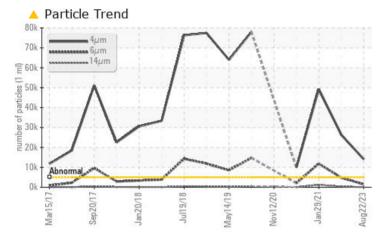
PROBLEM SUMMARY

Area Wide Cold Mill/Reduction Mill Machine Id 80" REDUCTION MILL UPENDER HYD (WCM033) (S/N 1000005877) Component

Hydraulic System

AW HYDRAULIC OIL ISO 46 (2500 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS									
Sample Status			ABNORMAL	ABNORMAL	SEVERE				
Particles >4µm	ASTM D7647	>5000	<u> </u>	A 26306	4 9333				
Particles >6µm	ASTM D7647	>1300	🔺 1477	4 788	• 11850				
Oil Cleanliness	ISO 4406 (c)	>19/17/15	<u> </u>	<u> </u>	• 23/21/17				

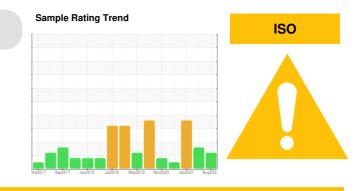
Customer Id: ALGSSM Sample No.: WC0752309 Lab Number: 02577728 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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



RECOMMENDED AC	RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description			
Change Filter			?	We recommend you service the filters on this component.			
Resample			?	We recommend an early resample to monitor this condition.			
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample.			

HISTORICAL DIAGNOSIS



28 Feb 2023 Diag: Wes Davis

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. Oil Cleanliness are abnormally high. Particles >4 μ m are abnormally high. Particles >6 μ m are abnormally high. Particles >14 μ m are notably high. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



ISO

29 Jan 2021 Diag: Wes Davis

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using Advanced Oil Monitoring (AOM) kits for this system. The AOM test package includes advanced level testing to determine the suitability of turbine and large industrial compressor oils for continued use.All component wear rates are normal. Particles >6µm are severely high. Particles >14µm are severely high. Particles >14µm are abnormally high. Particles >21µm are abnormally high. The system cleanliness code is much higher than the acceptable limit for the target ISO 4406 cleanliness code. The AN level is acceptable for this fluid. The condition of the oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



12 Nov 2020 Diag: Wes Davis



Resample at the next service interval to monitor. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using Advanced Oil Monitoring (AOM) kits for this system. The AOM test package includes advanced level testing to determine the suitability of turbine and large industrial compressor oils for continued use.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service (unconfirmed).





OIL ANALYSIS REPORT

Iron

Tin

Acid Number (AN)

mg KOH/g ASTM D974* 0.57

Wide Cold Mill/Reduction Mill 80" REDUCTION MILL UPENDER HYD (WCM033) (S/N 1000005877) Component

Hydraulic System

AW HYDRAULIC OIL ISO 46 (2500 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

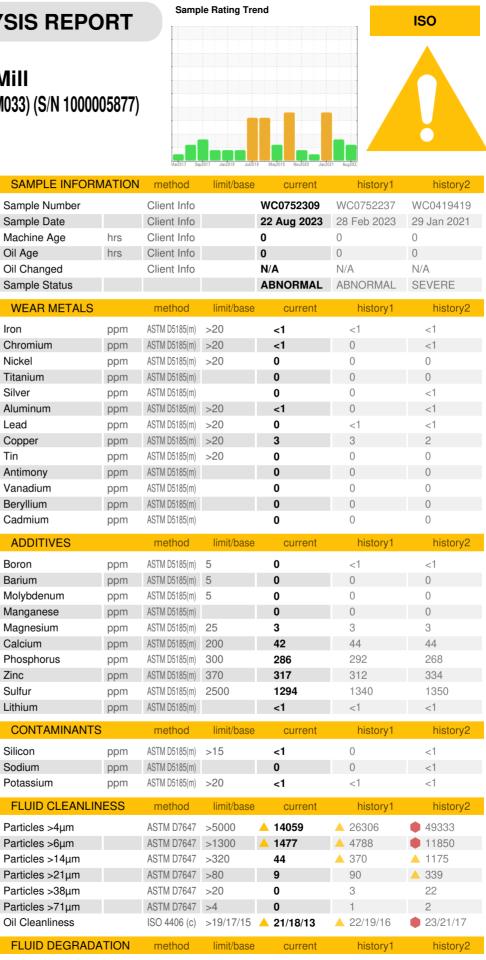
All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



Report Id: ALGSSM [WCAMIS] 02577728 (Generated: 08/24/2023 08:52:14) Rev: 1

Contact/Location: Maintenance Technology - Algoma Reliability - ALGSSM

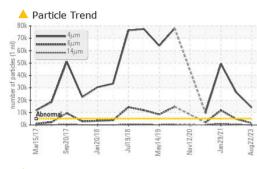
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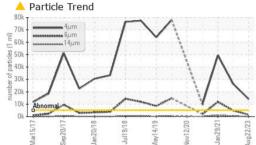
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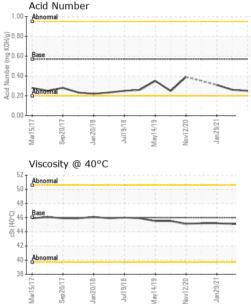
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OIL ANALYSIS REPORT

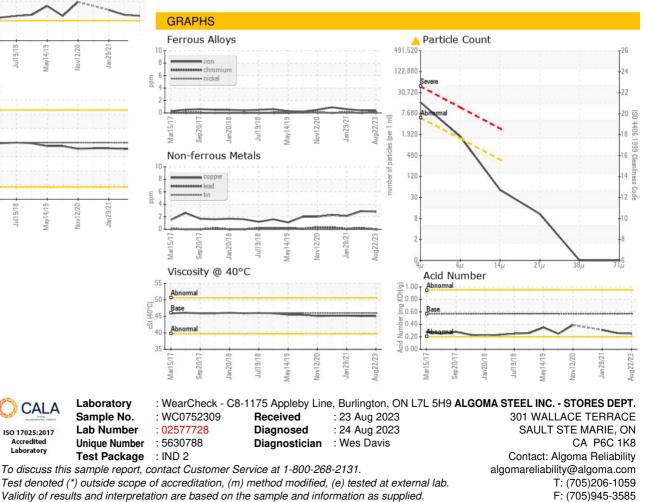






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	VLITE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.05	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46	45.1	45.1	45.2
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color				WC0782		
Bottom						





Contact/Location: Maintenance Technology - Algoma Reliability - ALGSSM