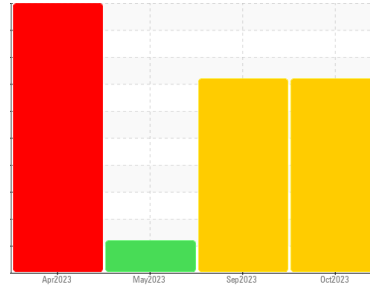




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id TERTIARY MILL DISCHARGE

Component
Bearing

Fluid
GEAR OIL ISO 220 (--- GAL)

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

Lead ppm levels are severe. Tin and antimony ppm levels are abnormal. Bearing wear is indicated.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0848169	WC0820118	WC0798655
Sample Date	Client Info		17 Oct 2023	04 Sep 2023	11 May 2023
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			SEVERE	SEVERE	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>200	17	9
Chromium	ppm	ASTM D5185(m)	>5	0	0
Nickel	ppm	ASTM D5185(m)	>5	<1	0
Titanium	ppm	ASTM D5185(m)	>5	0	<1
Silver	ppm	ASTM D5185(m)	>5	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	3	2
Lead	ppm	ASTM D5185(m)	>50	135	129
Copper	ppm	ASTM D5185(m)	>150	1	<1
Tin	ppm	ASTM D5185(m)	>10	49	21
Antimony	ppm	ASTM D5185(m)	>10	28	11
Vanadium	ppm	ASTM D5185(m)	>10	0	0
Beryllium	ppm	ASTM D5185(m)	>10	0	0
Cadmium	ppm	ASTM D5185(m)	>10	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	50	3	2
Barium	ppm	ASTM D5185(m)	15	<1	0
Molybdenum	ppm	ASTM D5185(m)	15	0	0
Manganese	ppm	ASTM D5185(m)	15	0	0
Magnesium	ppm	ASTM D5185(m)	50	1	<1
Calcium	ppm	ASTM D5185(m)	50	7	2
Phosphorus	ppm	ASTM D5185(m)	350	294	260
Zinc	ppm	ASTM D5185(m)	100	7	8
Sulfur	ppm	ASTM D5185(m)	12500	8426	9491
Lithium	ppm	ASTM D5185(m)	100	2	2

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	11	7
Sodium	ppm	ASTM D5185(m)	>25	2	1
Potassium	ppm	ASTM D5185(m)	>20	2	2

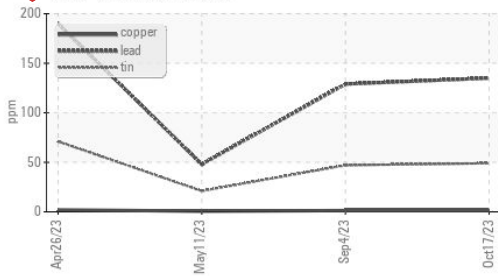
VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG
Free Water	scalar	Visual*	>0.1	NEG	NEG

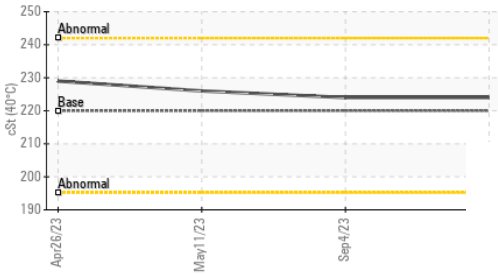


OIL ANALYSIS REPORT

Non-ferrous Metals



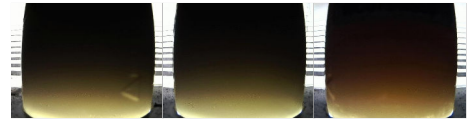
Viscosity @ 40°C



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	220	224	224	226

SAMPLE IMAGES		method	limit/base	current	history1	history2
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Color

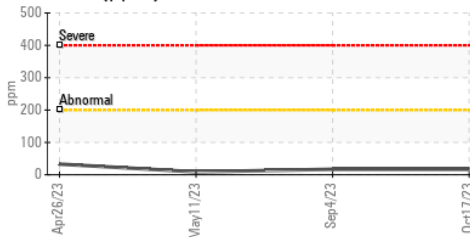


Bottom

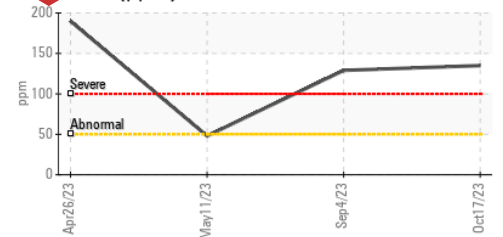


GRAPHS

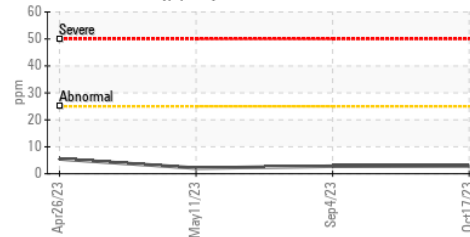
Iron (ppm)



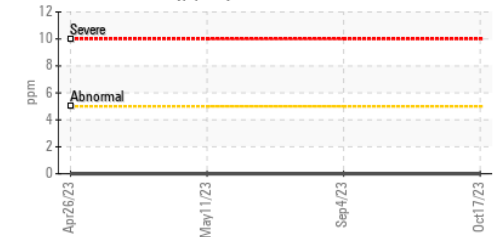
Lead (ppm)



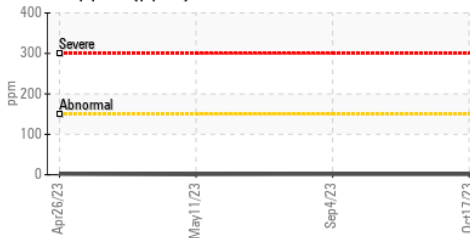
Aluminum (ppm)



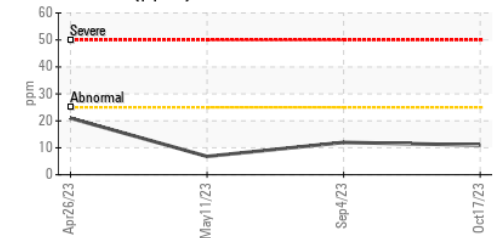
Chromium (ppm)



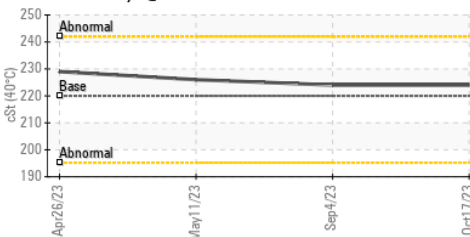
Copper (ppm)



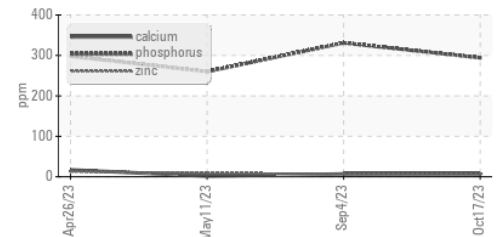
Silicon (ppm)



Viscosity @ 40°C



Additives



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
 Sample No. : WC0848169
 Lab Number : 02592266
 Unique Number : 5669345
 Test Package : MOB 1

Received : 26 Oct 2023
 Diagnosed : 27 Oct 2023
 Diagnostician : Kevin Marson

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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.