



# OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION

Area

7

Machine Id

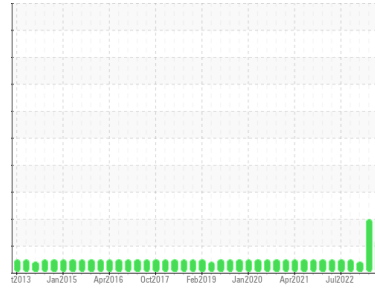
## 7-3-112 Aumund Conveyor to N. Clinker Silo

Component

Conveyor Gearbox

Fluid

MOBIL SHC 630 (152 LTR)



### DIAGNOSIS

#### Recommendation

We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

The AN level is above the recommended limit. The oil viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within ISO 320 range, advise investigate. The oil is no longer serviceable.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0869908	WC0842740	WC0818180
Sample Date	Client Info		22 Nov 2023	05 Sep 2023	16 May 2023
Machine Age	Client Info		0	0	0
Oil Age	Client Info		0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

### CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	NEG

### WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		0	0	2
Iron	ppm ASTM D5185(m)	>150	21	21	15
Chromium	ppm ASTM D5185(m)	>10	0	<1	0
Nickel	ppm ASTM D5185(m)	>10	<1	<1	<1
Titanium	ppm ASTM D5185(m)		0	0	0
Silver	ppm ASTM D5185(m)		<1	0	0
Aluminum	ppm ASTM D5185(m)	>25	<1	<1	<1
Lead	ppm ASTM D5185(m)	>100	0	0	<1
Copper	ppm ASTM D5185(m)	>50	<1	0	<1
Tin	ppm ASTM D5185(m)	>10	0	0	0
Antimony	ppm ASTM D5185(m)	>5	0	0	0
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)	0.3	31	▲ 28	10
Barium	ppm ASTM D5185(m)	0.0	<1	0	0
Molybdenum	ppm ASTM D5185(m)	0.0	0	0	0
Manganese	ppm ASTM D5185(m)	0.0	0	0	<1
Magnesium	ppm ASTM D5185(m)	0.1	0	0	0
Calcium	ppm ASTM D5185(m)	0.0	3	3	1
Phosphorus	ppm ASTM D5185(m)	864	383	446	455
Zinc	ppm ASTM D5185(m)	2.0	17	15	8
Sulfur	ppm ASTM D5185(m)	36	4947	▲ 5166	5203
Lithium	ppm ASTM D5185(m)		<1	<1	<1

### CONTAMINANTS

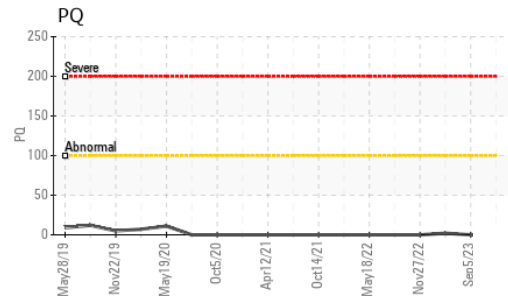
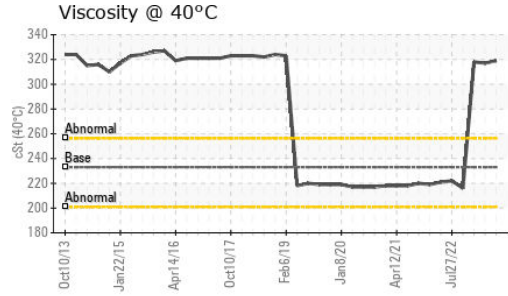
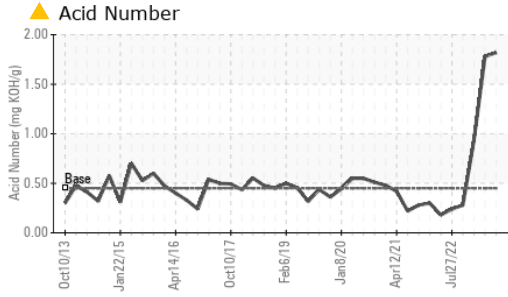
	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m)	>50	3	4	5
Sodium	ppm ASTM D5185(m)		2	2	2
Potassium	ppm ASTM D5185(m)	>20	0	0	<1

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*	0.45	▲ 1.82	▲ 1.78	0.94



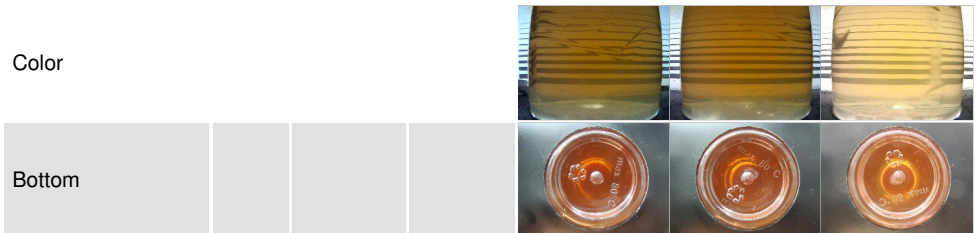
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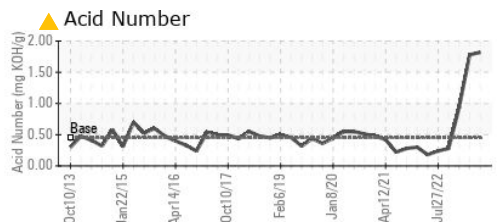
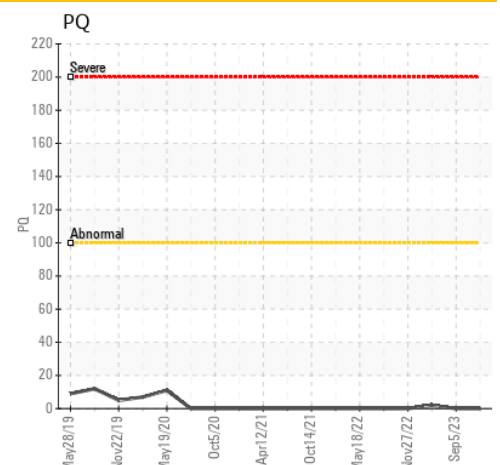
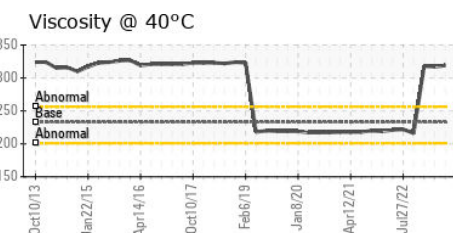
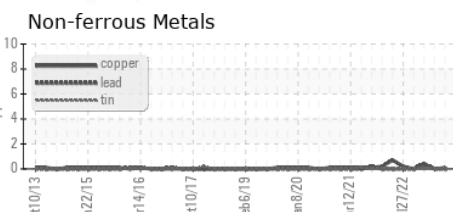
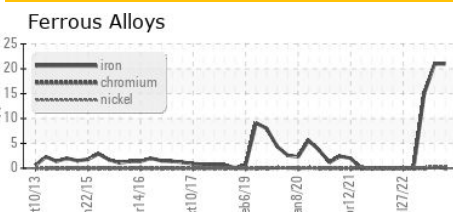
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	233	319	317 ▲ 318

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0869908 **Received** : 08 Dec 2023  
**Lab Number** : 02602020 **Diagnosed** : 11 Dec 2023  
**Unique Number** : 5695105 **Diagnostician** : Kevin Marson  
**Test Package** : IND 2

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.

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