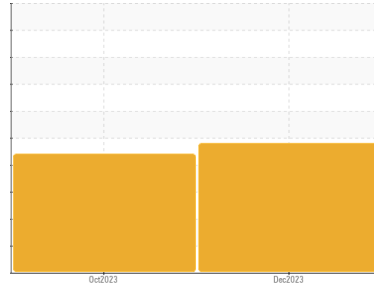




# OIL ANALYSIS REPORT

Sample Rating Trend



Area  
**54 LIME KILN**  
 Machine Id  
**Kiln Discharge Trunnion (S/N 545101)**  
 Component  
**Southeast Bearing**  
 Fluid  
**MOBIL SHC 634 (15 LTR)**

## DIAGNOSIS

**Recommendation**  
 Check seals and/or filters for points of contaminant entry. 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**  
 Copper and tin ppm levels are abnormal. Bearing wear is indicated. Light concentration of visible metal present.

**Contamination**  
 Elemental level of silicon (Si) above normal indicating ingress of seal material and/or dirt.

**Fluid Condition**  
 Viscosity of sample indicates oil is within ISO 680 range, advise investigate. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear. NOTE: The color of the oil is darker than previous samples.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC	WC	---
Sample Date	Client Info	<b>13 Dec 2023</b>	19 Oct 2023	---
Machine Age	hrs Client Info	<b>0</b>	0	---
Oil Age	hrs Client Info	<b>0</b>	0	---
Oil Changed	Client Info	<b>N/A</b>	N/A	---
Sample Status		<b>ABNORMAL</b>	ABNORMAL	---

## CONTAMINATION

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

## WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	<b>1</b>	0	---
Iron	ppm ASTM D5185(m) >200	<b>8</b>	2	---
Chromium	ppm ASTM D5185(m) >5	<b>0</b>	0	---
Nickel	ppm ASTM D5185(m) >5	<b>&lt;1</b>	<1	---
Titanium	ppm ASTM D5185(m) >5	<b>0</b>	0	---
Silver	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	---
Aluminum	ppm ASTM D5185(m) >25	<b>&lt;1</b>	<1	---
Lead	ppm ASTM D5185(m) >50	<b>48</b>	▲ 235	---
Copper	ppm ASTM D5185(m) >150	▲ <b>162</b>	3	---
Tin	ppm ASTM D5185(m) >10	▲ <b>11</b>	0	---
Antimony	ppm ASTM D5185(m)	<b>0</b>	0	---
Vanadium	ppm ASTM D5185(m)	<b>0</b>	0	---
Beryllium	ppm ASTM D5185(m)	<b>0</b>	0	---
Cadmium	ppm ASTM D5185(m)	<b>0</b>	0	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 3.6	<b>&lt;1</b>	3	---
Barium	ppm ASTM D5185(m) 0.0	<b>&lt;1</b>	▲ 593	---
Molybdenum	ppm ASTM D5185(m) 0.0	<b>0</b>	0	---
Manganese	ppm ASTM D5185(m)	<b>0</b>	0	---
Magnesium	ppm ASTM D5185(m) 0.0	<b>0</b>	2	---
Calcium	ppm ASTM D5185(m) 0.4	<b>4</b>	▲ 340	---
Phosphorus	ppm ASTM D5185(m) 838	<b>432</b>	360	---
Zinc	ppm ASTM D5185(m) 1.0	<b>3</b>	▲ 22	---
Sulfur	ppm ASTM D5185(m) 386	<b>16</b>	▲ 3494	---
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	---

## CONTAMINANTS

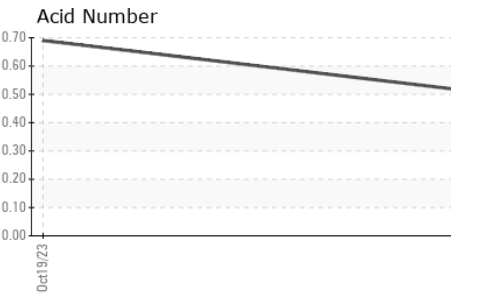
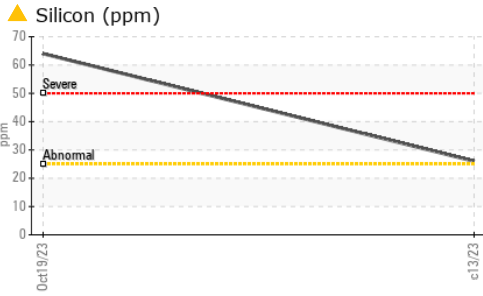
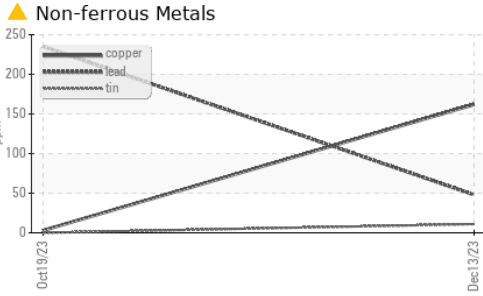
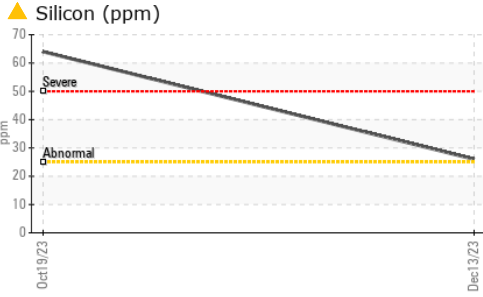
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	▲ <b>26</b>	▲ 64	---
Sodium	ppm ASTM D5185(m)	<b>&lt;1</b>	9	---
Potassium	ppm ASTM D5185(m) >20	<b>0</b>	2	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*	<b>0.51</b>	0.69	---



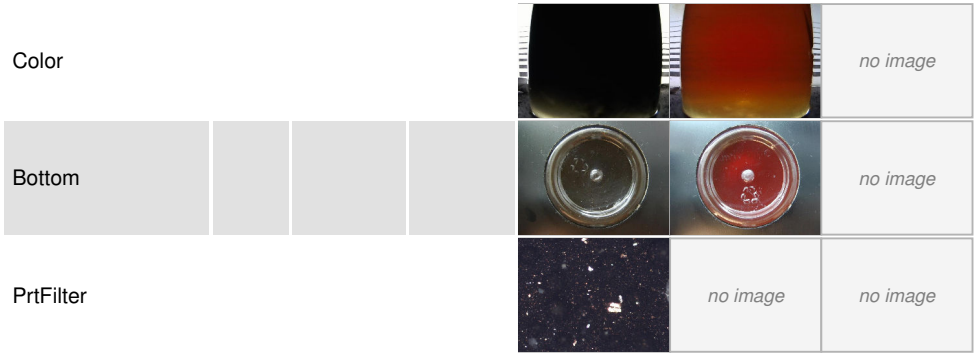
# OIL ANALYSIS REPORT



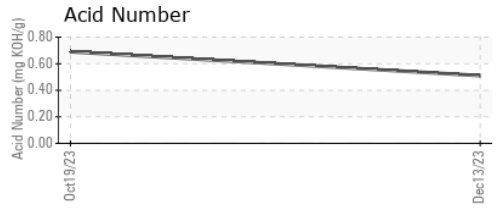
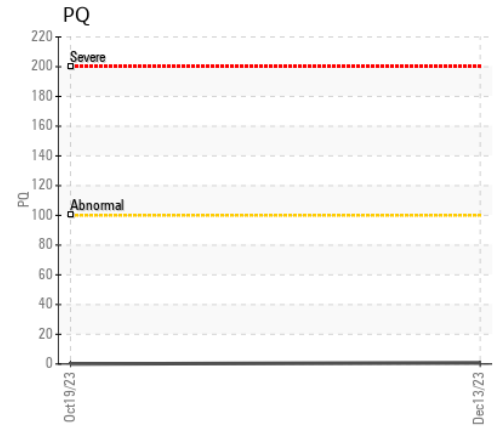
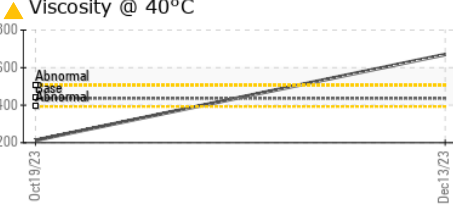
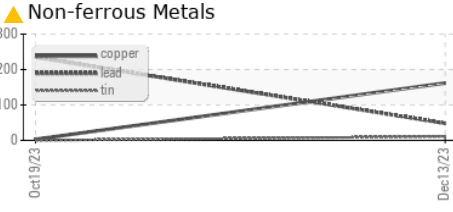
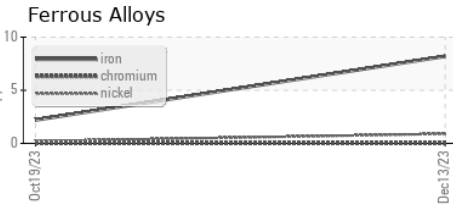
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	▲ LIGHT	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	VLITE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	436.4 ▲ 670	▲ 213	---

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.** : WC **Received** : 18 Dec 2023  
**Lab Number** : 02603803 **Diagnosed** : 20 Dec 2023  
**Unique Number** : 5696888 **Diagnostician** : Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: BottomAnalysis, FILTERPATCH, TAN Man )

**AV GROUP NB INC.**  
 103 PINDER ROAD., NACKAWIC MILL  
 NACKAWIC, NB  
 CA E6G 1W4  
 Contact: Alan Vanwagener  
 alan.vanwagener@adityabirla.com

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.