



# OIL ANALYSIS REPORT

Sample Rating Trend

**WATER**



Area  
**Arcelor Mittal - D00400**  
 Machine Id  
**AM956**  
 Component  
**Unknown Component**  
 Fluid  
**MORG OIL 220 (--- GAL)**

## DIAGNOSIS

### Recommendation

This is a baseline read-out on the submitted sample.

### Wear

Iron ppm levels are noted.

### Contamination

Water contamination levels are abnormally high. Water contamination levels are abnormally high.. Water contamination levels are abnormally high... ppm Water contamination levels are abnormally high. Oil Cleanliness are abnormally high. Particles >4µm are abnormally high. Particles >6µm are abnormally high. Particles >14µm are abnormally high. Particles >21µm are abnormally high.

### Fluid Condition

Acid Number (AN) is abnormally high. Visc @ 100°C is abnormally high.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Department	Client Info		<b>Sales</b>	---	---
Sample From	Client Info		<b>Machine</b>	---	---
Production Stage	Client Info		<b>Initial</b>	---	---
Sent to WC	Client Info		<b>12/15/2023</b>	---	---
Sample Number	Client Info		<b>E30000701</b>	---	---
Sample Date	Client Info		<b>13 Dec 2023</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	<b>50</b>	---	---
Chromium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185(m)	<b>1</b>	---	---
Lead	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185(m)	<b>2</b>	---	---
Tin	ppm	ASTM D5185(m)	<b>2</b>	---	---
Antimony	ppm	ASTM D5185(m)	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	---	---

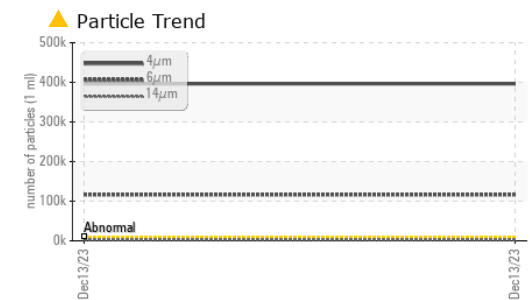
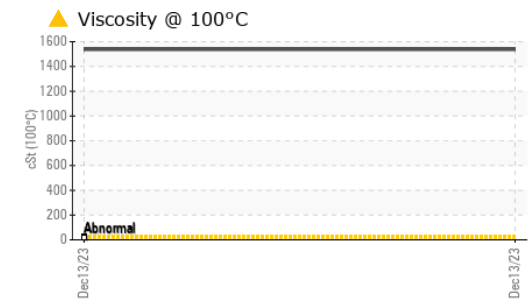
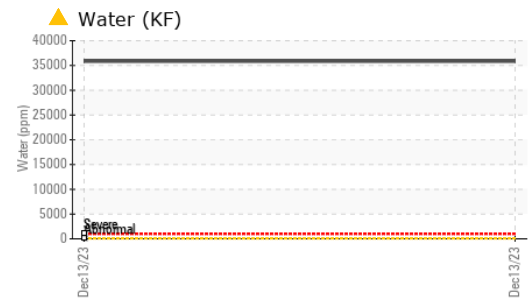
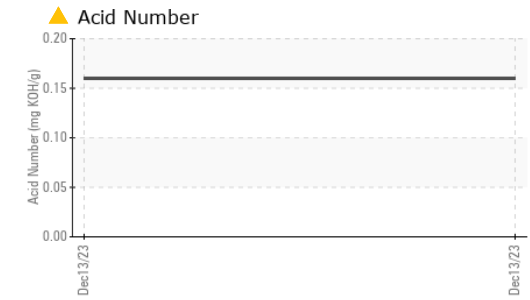
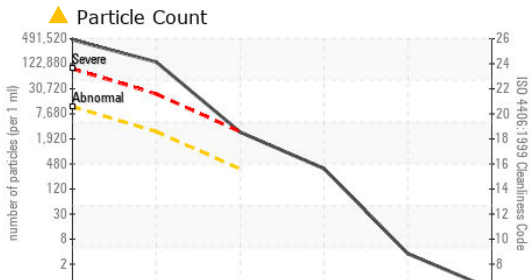
## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<b>4</b>	---	---
Barium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	<b>0</b>	---	---
Manganese	ppm	ASTM D5185(m)	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m)	<b>6</b>	---	---
Calcium	ppm	ASTM D5185(m)	<b>11</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	<b>8</b>	---	---
Zinc	ppm	ASTM D5185(m)	<b>8</b>	---	---
Sulfur	ppm	ASTM D5185(m)	<b>3589</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<b>2</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>3</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>1</b>	---	---
Water	%	ASTM D6304*	<b>▲ 3.586</b>	---	---
ppm Water	ppm	ASTM D6304*	<b>▲ 35861</b>	---	---

# OIL ANALYSIS REPORT



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : E30000701 **Received** : 19 Dec 2023  
**Lab Number** : 02604276 **Diagnosed** : 22 Dec 2023  
**Unique Number** : 5697361 **Diagnostician** : Tatiana Sorkina  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PrtCount, TAN Man, VI )

To discuss this sample report, contact Customer Service at 1-905-372-2251.  
 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.

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ 396318	---	---
Particles >6µm	ASTM D7647	>2500	▲ 116612	---	---
Particles >14µm	ASTM D7647	>320	▲ 2434	---	---
Particles >21µm	ASTM D7647	>80	▲ 326	---	---
Particles >38µm	ASTM D7647	>20	3	---	---
Particles >71µm	ASTM D7647	>4	0	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 26/24/18	---	---

### FLUID DEGRADATION

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	▲ 0.16	---	---

### VISUAL

White Metal	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	VLITE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	MILKY	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	▲ .2%	---	---
Free Water	scalar	Visual*	▲ 1%	---	---

### FLUID PROPERTIES

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	238	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	▲ 1538	---	---

### SAMPLE IMAGES

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image