



OIL ANALYSIS REPORT

Sample Rating Trend

WATER



Area
Arcelor Mittal - D00400
 Machine Id
AM955
 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 >14µm are abnormally high. Particles >21µm are abnormally high. Particles >4µm are abnormally high. Particles >6µm are abnormally high. Particles >38µm are abnormally high.

Fluid Condition

Visc @ 40°C is abnormally high. Visc @ 100°C is abnormally low.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Department	Client Info		Sales	---	---
Sample From	Client Info		Machine	---	---
Production Stage	Client Info		Initial	---	---
Sent to WC	Client Info		12/15/2023	---	---
Sample Number	Client Info		E30000700	---	---
Sample Date	Client Info		15 Dec 2023	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ABNORMAL	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	97	---	---
Chromium	ppm	ASTM D5185(m)	1	---	---
Nickel	ppm	ASTM D5185(m)	1	---	---
Titanium	ppm	ASTM D5185(m)	0	---	---
Silver	ppm	ASTM D5185(m)	<1	---	---
Aluminum	ppm	ASTM D5185(m)	2	---	---
Lead	ppm	ASTM D5185(m)	<1	---	---
Copper	ppm	ASTM D5185(m)	2	---	---
Tin	ppm	ASTM D5185(m)	3	---	---
Antimony	ppm	ASTM D5185(m)	0	---	---
Vanadium	ppm	ASTM D5185(m)	0	---	---
Beryllium	ppm	ASTM D5185(m)	0	---	---
Cadmium	ppm	ASTM D5185(m)	0	---	---

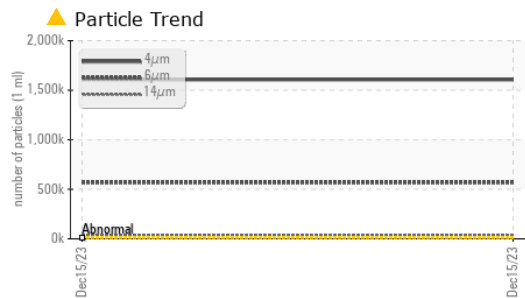
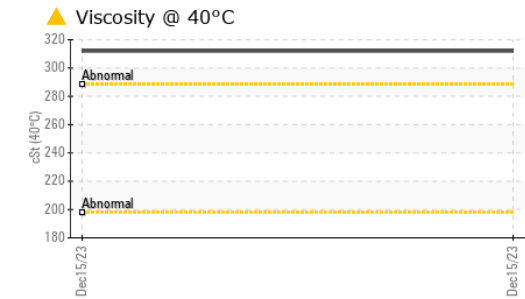
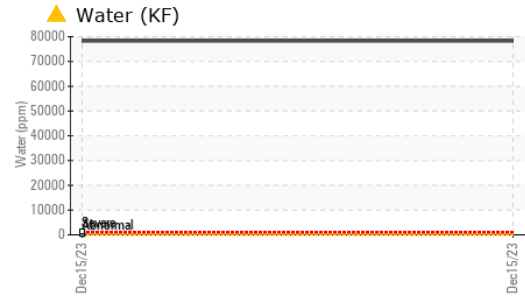
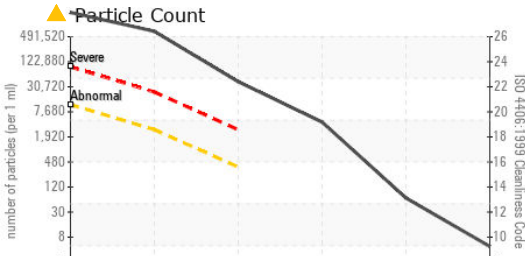
ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	5	---	---
Barium	ppm	ASTM D5185(m)	0	---	---
Molybdenum	ppm	ASTM D5185(m)	<1	---	---
Manganese	ppm	ASTM D5185(m)	<1	---	---
Magnesium	ppm	ASTM D5185(m)	12	---	---
Calcium	ppm	ASTM D5185(m)	18	---	---
Phosphorus	ppm	ASTM D5185(m)	10	---	---
Zinc	ppm	ASTM D5185(m)	9	---	---
Sulfur	ppm	ASTM D5185(m)	3287	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	2	---	---
Sodium	ppm	ASTM D5185(m)	5	---	---
Potassium	ppm	ASTM D5185(m) >20	<1	---	---
Water	%	ASTM D6304*	▲ 7.827	---	---
ppm Water	ppm	ASTM D6304*	▲ 78274	---	---

OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : E30000700
Lab Number : 02604277
Unique Number : 5697362
Test Package : IND 2 (Additional Tests: Bottom, KF, KV100, PrtCount, TAN Man, VI)

Environmental 360 Solutions Ltd.
 640 Victoria Street
 Cobourg, ON
 CA K9A 5H5
 Contact: Tatiana Sorkina
 tsorkina@e360s.ca
 T: (800)263-3939
 F: (905)373-4950

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	▲ 1606786	---	---
Particles >6µm	ASTM D7647	>2500	▲ 568361	---	---
Particles >14µm	ASTM D7647	>320	▲ 35360	---	---
Particles >21µm	ASTM D7647	>80	▲ 3808	---	---
Particles >38µm	ASTM D7647	>20	▲ 58	---	---
Particles >71µm	ASTM D7647	>4	▲ 4	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 28/26/22	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
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Acid Number (AN)	mg KOH/g	ASTM D974*	0.26	---	---
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VISUAL	method	limit/base	current	history1	history2
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White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	▲ MODER	---	---
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*	▲ .5%	---	---	
Free Water	scalar	Visual*	▲ 5%	---	---	

FLUID PROPERTIES	method	limit/base	current	history1	history2
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Visc @ 40°C	cSt	ASTM D7279(m)	▲ 312	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	▲ 11.7	---	---

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