

OIL ANALYSIS REPORT

Sample Rating Trend

WATER

Area Arcelor Mittal - D00400 Machine Id AM957

Component Unknown Component Fluid MORG OIL 220 (--- GAL)

DIAGNOSIS

A 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.. ppm Water contamination levels are abnormally high. ppm Water contamination levels are abnormally high.. Particles >4µm are abnormally high. Particles >6µm are abnormally high. Particles >21µm and oil cleanliness are abnormally high.

Fluid Condition

Visc @ 100°C is abnormally low.

SAMPLE INFORM	MATION	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		E30000702		
Sample Date		Client Info		13 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)		▲ 80		
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)		1		
Lead	ppm	ASTM D5185(m)		<1		
Copper	ppm	ASTM D5185(m)		3		
Tin	ppm	ASTM D5185(m)		2		
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)		7		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)		10		
Calcium	ppm	ASTM D5185(m)		12		
Phosphorus	ppm	ASTM D5185(m)		6		
Zinc	ppm	ASTM D5185(m)		6		
Sulfur	ppm	ASTM D5185(m)		3651		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		2		
Sodium	ppm	ASTM D5185(m)		4		
Potassium	ppm	ASTM D5185(m)	>20	<1		
Water	%	ASTM D6304*		6.073		
ppm Water	ppm	ASTM D6304*		6 50739		



70 60

icke

OIL ANALYSIS REPORT

Particle Count	FLUID CL
2,860 Severe 0,720 Abnormal 6,680	Particles >4µ Particles >6µ Particles >14
480 120- 30- 8-	Particles >14 Particles >21 Particles >38 Particles >38 Particles >71
2 0 4 4 4 6 4 6 4 1 4 4 2 1 4 3	Oil Cleanline
▲ Water (KF)	T LOID DE
0000 T	Acid Number
000 -	VISUAL
0000 -	White Metal
0000	Yellow Metal
0000	Precipitate
	Silt
13/23	EZE Debris Sand/Dirt
Deci	
▲ Viscosity @ 100°C	Appearance Odor
³⁰ T	Emulsified W
25 - Abnormal	Free Water
200	
15 - 9	FLUID PR
10	Visc @ 40°C
5-	Visc @ 100°
1323 1323 170	- SAMPLE I
Dec	Der
A Particle Trend	Color
400k	
200k - 14µm 100k - 100k - 14µm	
2001	Bottom
200k -	
0k Abnormal	3
Dec13/22	Dec13/23
eci	0

Acid Number (AN) mg KOHg ASTM D974* 0.24 VISUAL method limit/base current history1 history1 White Metal scalar Visual* NONE NONE Yellow Metal scalar Visual* NONE NONE Precipitate scalar Visual* NONE NONE Silt scalar Visual* NONE NONE Obbris scalar Visual* NONE NONE Odor scalar Visual* NONE VIITE Odor scalar Visual* NORML MILKY Odor scalar Visual* NORML NORML Color scalar Visual* NORML MILKY FLUID PROPERTIES method limit/base current history1 history1 Visc@ 40°C cSt	Particles >6µm ASTM D7647 >2500 ▲ 176974 Particles >14µm ASTM D7647 >320 3974 Particles >14µm ASTM D7647 >30 ▲ 533 Particles >38µm ASTM D7647 >20 7 Particles >38µm ASTM D7647 >20 7 Particles >71µm ASTM D7647 >4 0 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOHg ASTM D974* 0.24 VISUAL method limit/base current history1 history2 Acid Number (AN) mg KOHg ASTM D974* 0.24 VISUAL method limit/base current history1 history2 White Metal scalar Visual* NONE NONE Precipitate scalar Visual* NONE NONE Sitt scalar Visual* NONE NONE Sitt scalar Visual* NONE NONE Papearance scalar Visual* NONE NONE Emulsified Water scalar Visual* NORML AMILKY Emulsified Water scalar Visual* NORML AMILKY Emulsified Water scalar Visual* NORML AMILKY FLUID PROPERTIES method limit/base current history1 history2 Afric @ 40°C cSt ASTM D7279m 4.9 SAMPLE IMAGES method limit/base current history1 history2 Color no image no image	FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
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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.

Dec13/23

Laboratory

Sample No. Lab Number

Unique Number Test Package

Contact: Tatiana Sorkina tsorkina@e360s.ca T: (800)263-3939 F: (905)373-4950

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