

OIL ANALYSIS REPORT

Arcelor Mittal - D00400 AM955-R

Component

Unknown Component

SHELL MORG OIL 220 (--- GAL)

Sample Rating Trend



Recommendation

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

Wear

Iron ppm levels are noted.

Contamination

{not applicable}

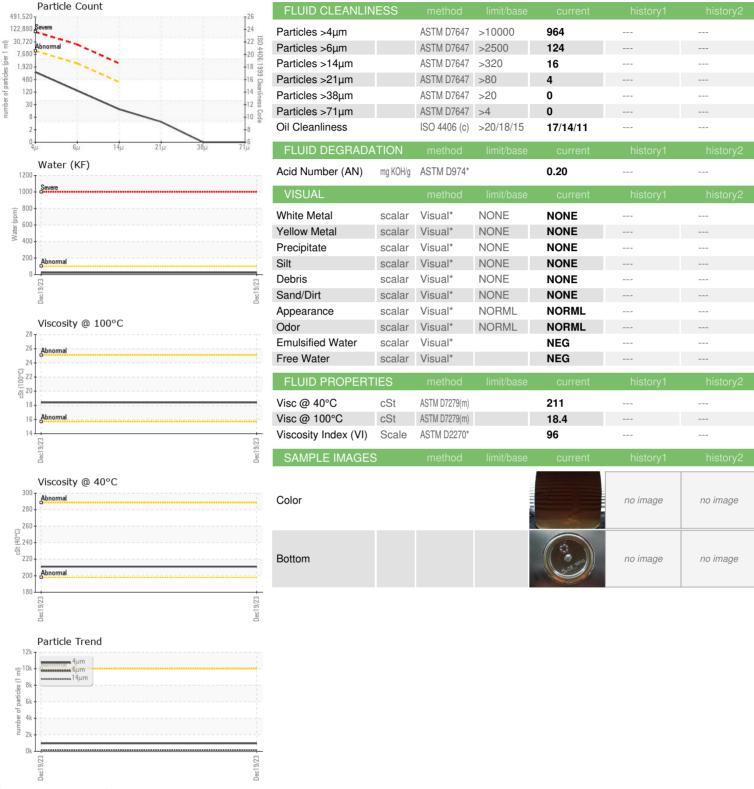
Fluid Condition

{not applicable}

Department					Dec2023		
Sample From Client Info Lab Reclaim	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Production Stage Client Info Lab Reclaim	Department		Client Info		Sales		
Sent to WC Client Info 12/19/2023 Sample Number Client Info E30001013 Sample Date Client Info 19 Dec 2023 Machine Age hrs Client Info 0 Machine Age hrs Client Info 0 Mormal Age hrs Client Info N/A	Sample From		Client Info		Machine		
Sample Number Client Info E30001013	Production Stage		Client Info		Lab Reclaim		
Sample Date Client Info 19 Dec 2023	Sent to WC		Client Info		12/19/2023		
Machine Age hrs Client Info 0 Oil Changed Client Info 0 Oil Changed Client Info N/A Sample Status NORMAL WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185(m) 27 Chromium ppm ASTM D5185(m) <1	Sample Number		Client Info		E30001013		
Oil Age hrs Client Info 0 Oil Changed Client Info N/A Sample Status NORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185(m) 27 Chromium ppm ASTM D5185(m) <1	Sample Date		Client Info		19 Dec 2023		
Oil Changed Sample Status Client Info N/A WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185(m) 27 Chromium ppm ASTM D5185(m) <1	Machine Age	hrs	Client Info		0		
Sample Status	Oil Age	hrs	Client Info		0		
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185(m) 27 Chromium ppm ASTM D5185(m) <1	Oil Changed		Client Info		N/A		
Iron	Sample Status				NORMAL		
Chromium ppm ASTM D5185(m) <1 Nickel ppm ASTM D5185(m) 0 Titanium ppm ASTM D5185(m) 0 Silver ppm ASTM D5185(m) <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185(m)		27		
Titanium	Chromium	ppm	ASTM D5185(m)		<1		
Silver	Nickel	ppm	ASTM D5185(m)		<1		
Aluminum	Titanium	ppm	ASTM D5185(m)		0		
Lead ppm ASTM D5185(m) <1	Silver	ppm	ASTM D5185(m)		0		
Copper ppm ASTM D5185(m) <1 Tin ppm ASTM D5185(m) 0 Antimony ppm ASTM D5185(m) 0 Vanadium ppm ASTM D5185(m) 0 Beryllium ppm ASTM D5185(m) 0 Cadmium ppm ASTM D5185(m) 0 Cadmium ppm ASTM D5185(m) 0 Boron ppm ASTM D5185(m) 0 Barium ppm ASTM D5185(m) 0 Molybdenum ppm ASTM D5185(m) 0 Magnaese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 8 Calcium ppm ASTM D5185(m) 14	Aluminum	ppm	ASTM D5185(m)		<1		
Tin ppm ASTM D5185(m) 1	Lead	ppm	ASTM D5185(m)		<1		
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) 0 Barium ppm ASTM D5185(m) 0 Molybdenum ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 24 Calcium ppm ASTM D5185(m) 14 Phosphorus ppm ASTM D5185(m) 2 Sulfur ppm ASTM D5185(m) 3853	Copper	ppm			<1		
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) 2 Barium ppm ASTM D5185(m) 0 Molybdenum ppm ASTM D5185(m) 0 Manganese ppm ASTM D5185(m) 24 Magnesium ppm ASTM D5185(m) 8 Calcium ppm ASTM D5185(m) 14 Phosphorus ppm ASTM D5185(m) 2 Zinc ppm ASTM D5185(m) 3853 Sulfur ppm ASTM D5185(m) <1		ppm					
Beryllium	•	ppm	ASTM D5185(m)		-		
Cadmium ppm ASTM D5185(m) 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 2 Barium ppm ASTM D5185(m) 0 Molybdenum ppm ASTM D5185(m) 0 Manganese ppm ASTM D5185(m) 24 Magnesium ppm ASTM D5185(m) 8 Calcium ppm ASTM D5185(m) 14 Phosphorus ppm ASTM D5185(m) 2 Zinc ppm ASTM D5185(m) 2 Sulfur ppm ASTM D5185(m) 3853 Lithium ppm ASTM D5185(m) <1		ppm					
ADDITIVES	•	ppm	ASTM D5185(m)		-		
Boron	Cadmium	ppm	ASTM D5185(m)		0		
Barium ppm ASTM D5185(m) 0 Molybdenum ppm ASTM D5185(m) 0 Manganese ppm ASTM D5185(m) 24 Magnesium ppm ASTM D5185(m) 8 Calcium ppm ASTM D5185(m) 14 Phosphorus ppm ASTM D5185(m) 2 Zinc ppm ASTM D5185(m) 3853 Sulfur ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) 1 Sodium ppm ASTM D5185(m) >20 <1 Water % ASTM D6304* 0.002	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185(m) 0 Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 24 Calcium ppm ASTM D5185(m) 8 Phosphorus ppm ASTM D5185(m) 14 Zinc ppm ASTM D5185(m) 2 Sulfur ppm ASTM D5185(m) 3853 Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) 1 Sodium ppm ASTM D5185(m) 3 Potassium ppm ASTM D6185(m) >20 <1 Water % ASTM D6304* 0.002	Boron	ppm	ASTM D5185(m)		2		
Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 24 Calcium ppm ASTM D5185(m) 8 Phosphorus ppm ASTM D5185(m) 14 Zinc ppm ASTM D5185(m) 2 Sulfur ppm ASTM D5185(m) 3853 Lithium ppm ASTM D5185(m) <1	Barium	ppm	ASTM D5185(m)		0		
Magnesium ppm ASTM D5185(m) 24 Calcium ppm ASTM D5185(m) 8 Phosphorus ppm ASTM D5185(m) 14 Zinc ppm ASTM D5185(m) 2 Sulfur ppm ASTM D5185(m) 3853 Lithium ppm ASTM D5185(m) <1	Molybdenum	ppm	ASTM D5185(m)		0		
Calcium ppm ASTM D5185(m) 8 Phosphorus ppm ASTM D5185(m) 14 Zinc ppm ASTM D5185(m) 2 Sulfur ppm ASTM D5185(m) 3853 Lithium ppm ASTM D5185(m) <1	Manganese	ppm	ASTM D5185(m)		0		
Phosphorus ppm ASTM D5185(m) 14 Zinc ppm ASTM D5185(m) 2 Sulfur ppm ASTM D5185(m) 3853 Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) 1 Sodium ppm ASTM D5185(m) 3 Potassium ppm ASTM D5185(m) >20 <1 Water % ASTM D6304* 0.002	Magnesium	ppm	ASTM D5185(m)				
Zinc ppm ASTM D5185(m) 2 Sulfur ppm ASTM D5185(m) 3853 Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) 1 Sodium ppm ASTM D5185(m) 3 Potassium ppm ASTM D5185(m) >20 <1 Water % ASTM D6304* 0.002	Calcium	ppm	ASTM D5185(m)		8		
Sulfur ppm ASTM D5185(m) 3853 Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) 1 Sodium ppm ASTM D5185(m) 3 Potassium ppm ASTM D5185(m) >20 <1	Phosphorus	ppm	. ,		14		
Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) 1 Sodium ppm ASTM D5185(m) 3 Potassium ppm ASTM D5185(m) >20 <1	-	ppm	, ,				
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) 1 Sodium ppm ASTM D5185(m) 3 Potassium ppm ASTM D5185(m) >20 <1							
Silicon ppm ASTM D5185(m) 1 Sodium ppm ASTM D5185(m) 3 Potassium ppm ASTM D5185(m) >20 <1 Water % ASTM D6304* 0.002	Lithium	ppm	ASTM D5185(m)		<1		
Sodium ppm ASTM D5185(m) 3 Potassium ppm ASTM D5185(m) >20 <1 Water % ASTM D6304* 0.002	CONTAMINANT	S	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185(m) >20 <1 Water % ASTM D6304* 0.002	Silicon	ppm			1		
Water % ASTM D6304* 0.002		ppm	ASTM D5185(m)		3		
	Potassium	ppm	ASTM D5185(m)	>20	<1		
ppm Water ppm ASTM D6304* 22	Water	%	ASTM D6304*		0.002		
	ppm Water	ppm	ASTM D6304*		22		



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : E30001013 : 02604761

: 5697846

Validity of results and interpretation are based on the sample and information as supplied.

Recieved : 21 Dec 2023 Diagnosed : 28 Dec 2023 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.

Cobourg, ON **CA K9A 5H5** Contact: Tatiana Sorkina tsorkina@e360s.ca T: (800)263-3939 F: (905)373-4950

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