

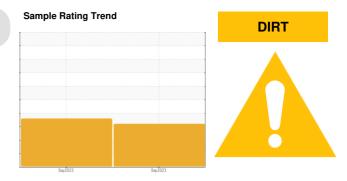
PROBLEM SUMMARY

Inland Iron - 888041

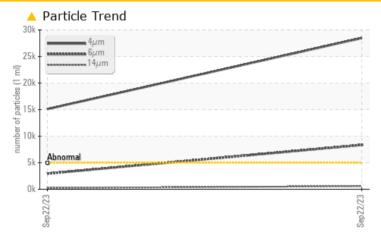
AG192

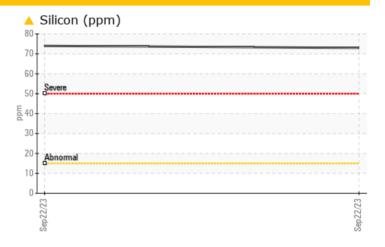
Component **Hydraulic System**

AW HYDRAULIC OIL ISO 22 (--- GAL)



COMPONENT CONDITION SUMMARY





RECOMMENDATION

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

PROBLEMATIC TEST RESULTS											
Sample Status				ABNORMAL	ABNORMAL						
Silicon	ppm	ASTM D5185(m)	>15	<u>^</u> 74	▲ 73						
Particles >4µm		ASTM D7647	>5000	15102	28473						
Particles >6µm		ASTM D7647	>1300	2946	<u>▲</u> 8348						
Particles >14µm		ASTM D7647	>160	<u> </u>	<u></u> 584						
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>	<u>22/20/16</u>						

Customer Id: CHECOB Sample No.: E30000423 Lab Number: 02586125 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Tatiana Sorkina +1 (800)263-3939 tsorkina@e360s.ca

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

22 Sep 2023 Diag: Tatiana Sorkina

DIRT



This is a baseline read-out on the submitted sample. {not applicable} Silicon ppm levels are abnormally high. Oil Cleanliness are abnormally high. Particles >14µm are abnormally high. Particles >4µm are abnormally high. Particles >6µm are abnormally high. Particles >21µm are notably high. {not applicable}





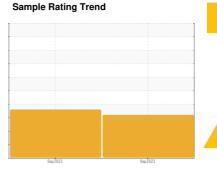
OIL ANALYSIS REPORT

Inland Iron - 888041 **AG192**

Component

Hydraulic System

AW HYDRAULIC OIL ISO 22 (--- GAL)





DIAGNOSIS

Recommendation

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

Wear

{not applicable}

Contamination

Oil Cleanliness are abnormally high. Particles >4µm are abnormally high. Particles >6µm are abnormally high. Silicon ppm levels are notably high. Particles >14µm are notably high.

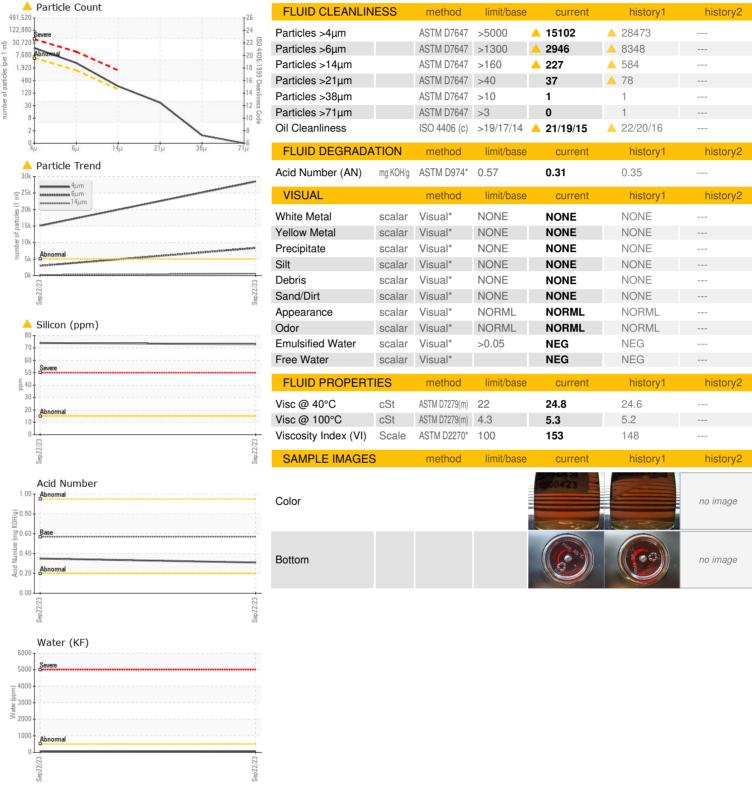
Fluid Condition

{not applicable}

			Sep2023	Sep2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Batch #		Client Info		AG192	Tote 6	
Machine ID		Client Info		Sales	AG192	
Department		Client Info		Tote	Sales	
Sample From		Client Info		Initial		
Production Stage		Client Info		09/28/2023	Initial	
Sent to WC		Client Info			09/25/2023	
Sample Number		Client Info		E30000423	E30000219	
Sample Date		Client Info		22 Sep 2023	22 Sep 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	4	4	
Chromium	ppm	ASTM D5185(m)	>20	1	1	
Nickel	ppm	ASTM D5185(m)	>20	0	<1	
Titanium	ppm	ASTM D5185(m)	720	0	0	
Silver	ppm	ASTM D5185(m)		<1	<1	
Aluminum	ppm	ASTM D5185(m)	>20	0	<1	
Lead	ppm	ASTM D5185(m)	>20	<1	<1	
Copper	ppm	ASTM D5185(m)	>20	1	1	
Tin	ppm	ASTM D5185(m)	>20	0	0	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	5	2	1	
Barium	ppm	ASTM D5185(m)	5	<1	<1	
Molybdenum	ppm	ASTM D5185(m)	5	0	0	
Manganese	ppm	ASTM D5185(m)		0	0	
Magnesium	ppm	ASTM D5185(m)	25	0	<1	
Calcium	ppm	ASTM D5185(m)	200	<1	<1	
Phosphorus	ppm	ASTM D5185(m)	300	274	266	
Zinc	ppm	ASTM D5185(m)	370	217	209	
Sulfur	ppm	ASTM D5185(m)	2500	3074	3012	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<u> </u>	△ 73	
Sodium	ppm	ASTM D5185(m)		<1	<1	
Potassium	ppm	ASTM D5185(m)	>20	0	<1	
Water	%	ASTM D6304*	>0.05	0.006	0.004	
ppm Water	ppm	ASTM D6304*	>500	67.6	47.8	



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

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

Test Package

: E30000423

: 02586125

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received Diagnosed

: 02 Oct 2023 : 05 Oct 2023

: Tatiana Sorkina

: 5655191 Diagnostician : IND 2 (Additional Tests: KF, KV100, VI) 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.

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