

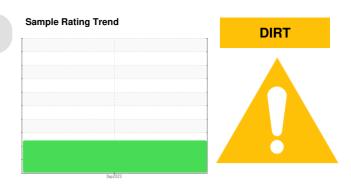
PROBLEM SUMMARY

Inland Iron - 888041 Machine Id AG190

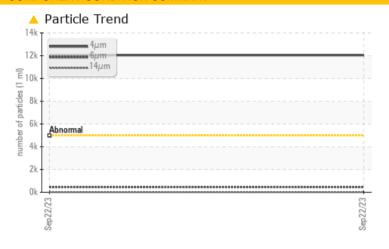
Component

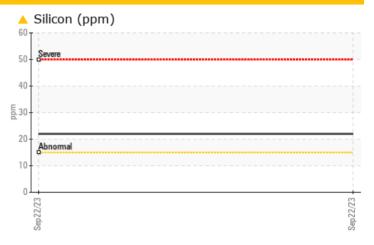
Hydraulic System

AW HYDRAULIC OIL ISO 46 (--- GAL)



COMPONENT CONDITION SUMMARY





RECOMMENDATION

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

PROBLEMATIC TEST RESULTS										
Sample Status				ABNORMAL						
Silicon	ppm	ASTM D5185(m)	>15	<u>^</u> 22						
Particles >4µm		ASTM D7647	>5000	12044						
Oil Cleanliness		ISO 4406 (c)	>19/17/14	21/16/11						

Customer Id: CHECOB Sample No.: E30000421 Lab Number: 02586112 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



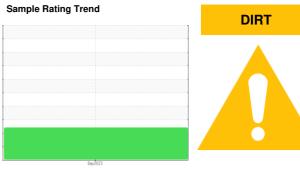
OIL ANALYSIS REPORT

Inland Iron - 888041 **AG190**

Component

Hydraulic System

AW HYDRAULIC OIL ISO 46 (--- GAL)



DIAGNOSIS

Recommendation

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

Wear

{not applicable}

Contamination

Particles >4µm and oil cleanliness are abnormally high. Silicon ppm levels are notably high.

Fluid Condition

{not applicable}

				Sep 2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Batch #		Client Info		AG190		
Machine ID		Client Info		Sales		
Department		Client Info		Tote		
Sample From		Client Info		Initial		
Production Stage		Client Info		09/28/2023		
Sample Number		Client Info		E30000421		
Sample Date		Client Info		22 Sep 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)	>20	7		
Chromium	ppm	ASTM D5185(m)	>20	1		
Nickel	ppm	ASTM D5185(m)	>20	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		<1		
Aluminum	ppm	ASTM D5185(m)	>20	<1		
Lead	ppm	ASTM D5185(m)	>20	3		
Copper	ppm	ASTM D5185(m)	>20	5		
Tin	ppm	ASTM D5185(m)	>20	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		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	5	1		
Barium	ppm	ASTM D5185(m)	5	<1		
Molybdenum	ppm	ASTM D5185(m)	5	0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	25	2		
Calcium	ppm	ASTM D5185(m)	200	40		
Phosphorus	ppm	ASTM D5185(m)	300	318		
Zinc	ppm	ASTM D5185(m)		313		
Sulfur	ppm	ASTM D5185(m)	2500	2789		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<u>^</u> 22		
Sodium	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)	>20	<1		
Water	%	ASTM D6304*	>0.05	0.004		
nnm Matar	nn	ACTM DCCCA*	. FOO	44.0		

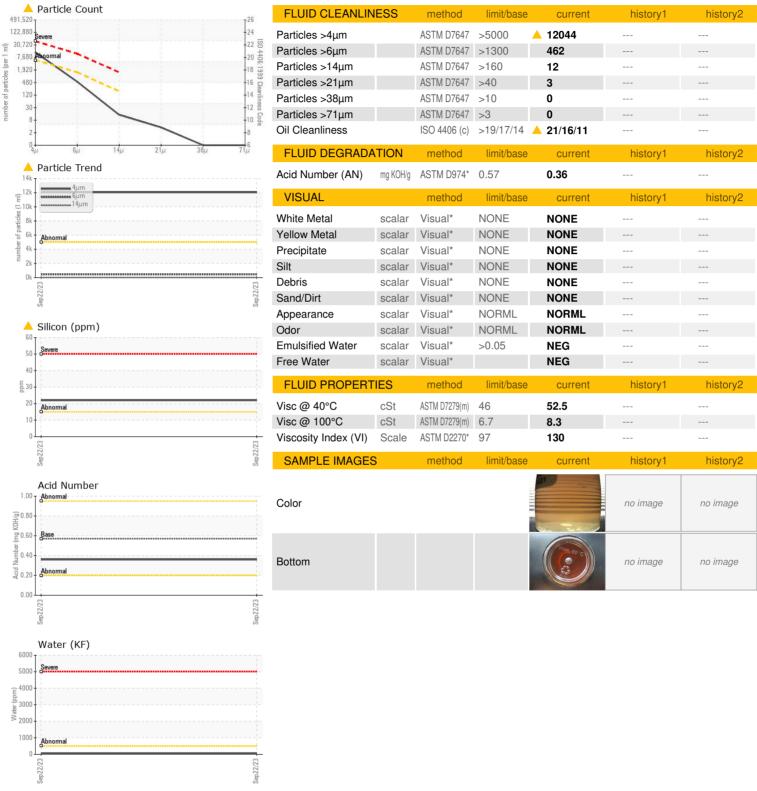
ppm Water

ppm ASTM D6304* >500

44.0



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

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

: 02586112 : 5655178

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : E30000421 Diagnosed

: 05 Oct 2023 Diagnostician : Tatiana Sorkina

: 02 Oct 2023

Test Package : 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.

Environmental 360 Solutions Ltd.

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