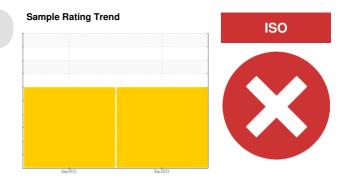


## **PROBLEM SUMMARY**

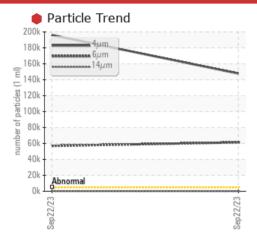
# Inland Iron - 888041 **AG194**

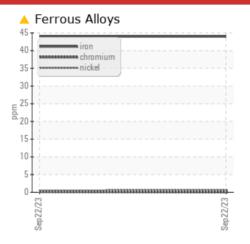
Component **Hydraulic System** 

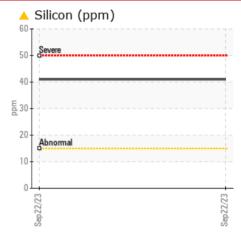
**AW HYDRAULIC OIL ISO 46 (--- GAL)** 



## COMPONENT CONDITION SUMMARY







## RECOMMENDATION

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

PROBLEMATIC TEST RESULTS											
Sample Status				SEVERE	SEVERE						
Iron	ppm	ASTM D5185(m)	>20	<b>44</b>	<u>44</u>						
Silicon	ppm	ASTM D5185(m)	>15	<b>41</b>	<b>4</b> 1						
Particles >4µm		ASTM D7647	>5000	<b>196124</b>	147829						
Particles >6µm		ASTM D7647	>1300	<b>56951</b>	<b>6</b> 1350						
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>25/23/10</b>	<b>2</b> 4/23/11						

Customer Id: CHECOB Sample No.: E30000426 Lab Number: 02586127 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

ISO



Iron ppm levels are abnormal. Particles >6 $\mu$ m are severely high. Particles >4 $\mu$ m and oil cleanliness are severely high. Silicon ppm levels are abnormally high.



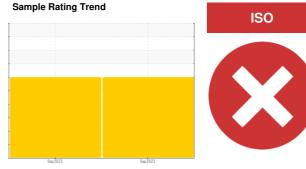


## **OIL ANALYSIS REPORT**

# Inland Iron - 888041 **AG194**

**Hydraulic System** 

**AW HYDRAULIC OIL ISO 46 (--- GAL)** 



## DIAGNOSIS

### Recommendation

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

### Wear

Iron ppm levels are noted.

## Contamination

Particles >6µm are severely high. Particles >4µm and oil cleanliness are severely high. Silicon ppm levels are notably high.

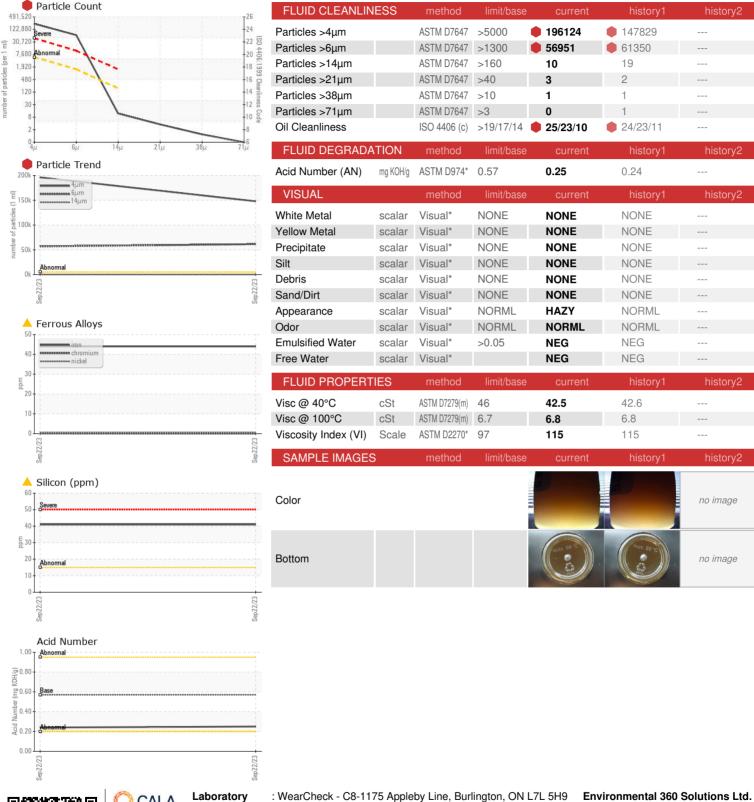
### **Fluid Condition**

{not applicable}

			Sep2023	Sep.2023		
SAMPLE INFORM	/ATION	method	limit/base	current	history1	history2
Batch #		Client Info		CHECOB	Tote 24	
Machine ID		Client Info		Sales	AG194	
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		E30000426	E30000221	
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				SEVERE	SEVERE	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	0	
Iron	ppm	ASTM D5185(m)	>20	<b>44</b>	<u>44</u>	
Chromium	ppm	ASTM D5185(m)	>20	<1	0	
Nickel	ppm	ASTM D5185(m)	>20	<1	<1	
Titanium	ppm	ASTM D5185(m)		2	2	
Silver	ppm	ASTM D5185(m)		<1	<1	
Aluminum	ppm	ASTM D5185(m)	>20	8	7	
Lead	ppm	ASTM D5185(m)	>20	19	18	
Copper	ppm	ASTM D5185(m)	>20	17	17	
Tin	ppm	ASTM D5185(m)	>20	0	<1	
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)		<1	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	5	<1	<1	
Barium	ppm	ASTM D5185(m)	5	<1	<1	
Molybdenum	ppm	ASTM D5185(m)	5	0	0	
Manganese	ppm	ASTM D5185(m)		<1	<1	
Magnesium	ppm	ASTM D5185(m)	25	5	5	
Calcium	ppm	ASTM D5185(m)	200	40	40	
Phosphorus	ppm	ASTM D5185(m)	300	330	317	
Zinc	ppm	ASTM D5185(m)		281	274	
Sulfur	ppm	ASTM D5185(m)	2500	1856	1827	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<u>41</u>	<u>4</u> 1	
Sodium	ppm	ASTM D5185(m)		1	1	
Potassium	ppm	ASTM D5185(m)	>20	1	2	
Water	%	ASTM D6304*	>0.05	0.007	0.001	
ppm Water	ppm	ASTM D6304*	>500	78.5	11.1	



## OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

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

: E30000426

: 02586127

Received : 5655193

: 02 Oct 2023 Diagnosed : 05 Oct 2023 Diagnostician : Tatiana Sorkina

Test Package : IND 2 (Additional Tests: KF, KV100, PQ, 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.** 

640 Victoria Street Cobourg, ON **CA K9A 5H5** Contact: Fred Kosseim

fkosseim@e360s.ca T: (905)372-2251 F: (905)372-1658