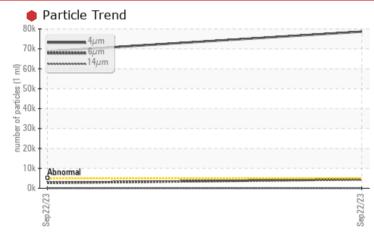


Area Inland Iron - 888041 AG193

Component Hydraulic System Fluid 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			
Particles >4µm	ASTM D7647	>5000	68782	• 78641			
Particles >6µm	ASTM D7647	>1300	🔺 2690	4 448			
Oil Cleanliness	ISO 4406 (c)	>19/17/14	e 23/19/10	• 23/19/11			

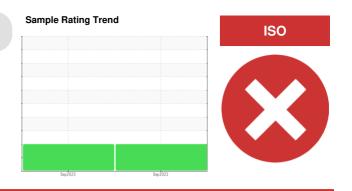
Customer Id: CHECOB Sample No.: E30000424 Lab Number: 02586126 Test Package: IND 2



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



There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

22 Sep 2023 Diag: Tatiana Sorkina



This is a baseline read-out on the submitted sample.{not applicable} Particles >4 μ m and oil cleanliness are severely high. Particles >6 μ m are abnormally high. {not applicable}





OIL ANALYSIS REPORT

Inland Iron - 888041 **AG193** 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 severely high. Particles >6µm are abnormally high.

Fluid Condition

{not applicable}

		-				
			Sep2023	Sep2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Batch #		Client Info		AG193	Tote 12	
Machine ID		Client Info		Sales	AG193	
Department		Client Info		Tote	Production	
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		E30000424	E30000220	
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
Iron	ppm	ASTM D5185(m)	>20	6	5	
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	
Nickel	ppm	ASTM D5185(m)	>20	0	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		<1	<1	
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	
Lead	ppm	ASTM D5185(m)	>20	2	1	
Copper	ppm	ASTM D5185(m)	>20	9	8	
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	<1	<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	2	2	
Calcium	ppm	ASTM D5185(m)	200	5	4	
Phosphorus	ppm	ASTM D5185(m)	300	330	318	
Zinc	ppm	ASTM D5185(m)	370	274	263	
Sulfur	ppm	ASTM D5185(m)	2500	1225	1185	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	5	5	
Sodium	ppm	ASTM D5185(m)		<1	<1	
Potassium	ppm	ASTM D5185(m)	>20	0	<1	
Water	%	ASTM D6304*	>0.05	0.003	0.004	
ppm Water	ppm	ASTM D6304*	>500	31.9	43.5	

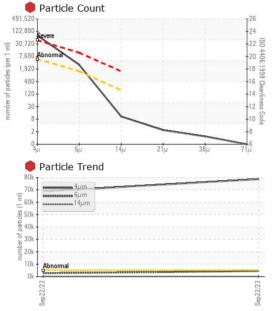


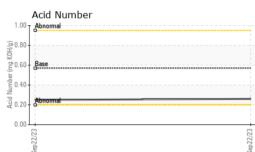
Sample Rating Trend

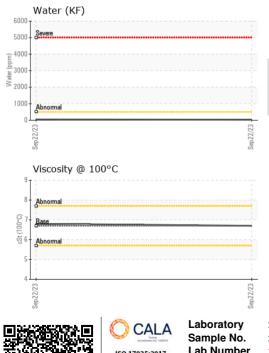




OIL ANALYSIS REPORT







FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	68782	• 78641	
Particles >6µm		ASTM D7647	>1300	<u> </u>	4 448	
Particles >14µm		ASTM D7647	>160	9	16	
Particles >21µm		ASTM D7647	>40	2	4	
Particles >38µm		ASTM D7647	>10	1	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	e 23/19/10	23/19/11	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.26	0.25	
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
Precipitate	scalar	Visual*	NONE	NONE	NONE	
Silt	scalar	Visual*	NONE	NONE	NONE	
Debris	scalar	Visual*	NONE	NONE	NONE	
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
Appearance	scalar	Visual*	NORML	NORML	NORML	
Odor	scalar	Visual*	NORML	NORML	NORML	
Emulsified Water	scalar	Visual*	>0.05	NEG	NEG	
Free Water	scalar	Visual*		NEG	NEG	
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46	43.5	43.5	
Visc @ 100°C	cSt	ASTM D7279(m)	6.7	6.7	6.8	
Viscosity Index (VI)	Scale	ASTM D2270*	97	107	111	
SAMPLE IMAGES	\$	method	limit/base	current	history1	history2
Color					C E3000	no image
Bottom						no image



