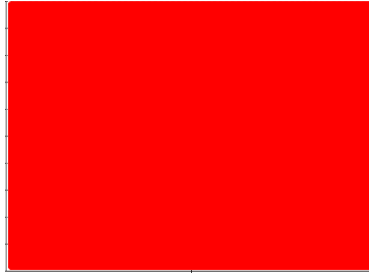


PROBLEM SUMMARY

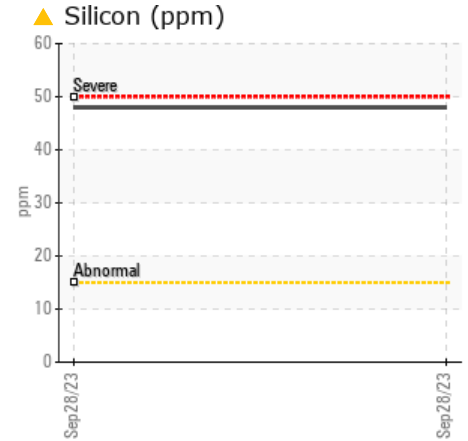
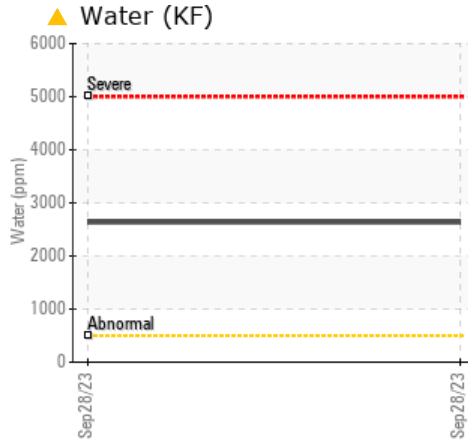
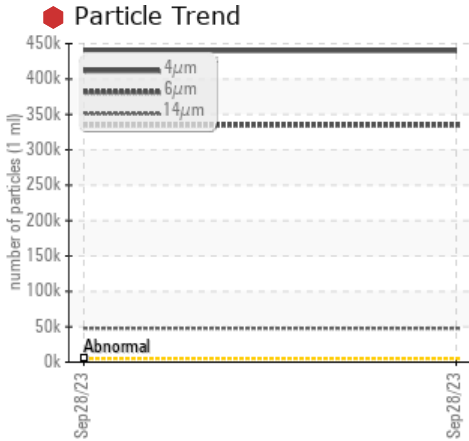
Sample Rating Trend

ISO



Area
Inland Iron and Metal - 888041
 Machine Id
AG201
 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	---	---
Silicon	ppm	ASTM D5185(m)	>15	▲ 48	---	---
Water	%	ASTM D6304*	>0.05	▲ 0.263	---	---
ppm Water	ppm	ASTM D6304*	>500	▲ 2634.0	---	---
Particles >4µm		ASTM D7647	>5000	● 440025	---	---
Particles >6µm		ASTM D7647	>1300	● 334900	---	---
Particles >14µm		ASTM D7647	>160	● 47712	---	---
Particles >21µm		ASTM D7647	>40	● 7013	---	---
Particles >38µm		ASTM D7647	>10	● 164	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	● 26/26/23	---	---

Customer Id: CHECOB
 Sample No.: E30000470
 Lab Number: 02587161
 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

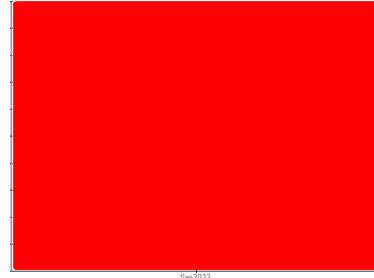


OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Area
Inland Iron and Metal - 888041
 Machine Id
AG201
 Component
Hydraulic System
 Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)



DIAGNOSIS

Recommendation

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

Wear

Aluminum and iron ppm levels are noted.

Contamination

Particles >14µm are severely high. Particles >21µm are severely high. Particles >38µm are severely high. Particles >6µm are severely high. Oil Cleanliness are severely high. Particles >4µm are severely high. Water and ppm water contamination levels are abnormal. Silicon ppm levels are notably high.

Fluid Condition

{not applicable}

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Batch #	Client Info		AG201	---	---
Machine ID	Client Info		Sales	---	---
Department	Client Info		Machine	---	---
Sample From	Client Info		Initial	---	---
Production Stage	Client Info		10/04/2023	---	---
Sample Number	Client Info		E30000470	---	---
Sample Date	Client Info		28 Sep 2023	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			SEVERE	---	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		8	---	---
Iron	ppm	ASTM D5185(m) >20	74	---	---
Chromium	ppm	ASTM D5185(m) >20	<1	---	---
Nickel	ppm	ASTM D5185(m) >20	<1	---	---
Titanium	ppm	ASTM D5185(m)	2	---	---
Silver	ppm	ASTM D5185(m)	<1	---	---
Aluminum	ppm	ASTM D5185(m) >20	15	---	---
Lead	ppm	ASTM D5185(m) >20	11	---	---
Copper	ppm	ASTM D5185(m) >20	15	---	---
Tin	ppm	ASTM D5185(m) >20	<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	---	---

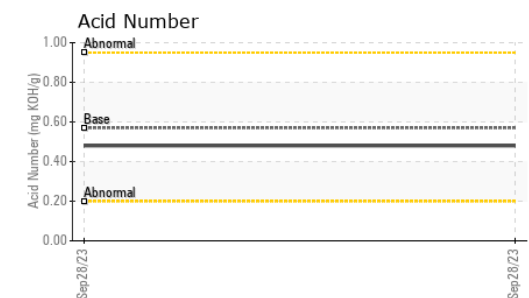
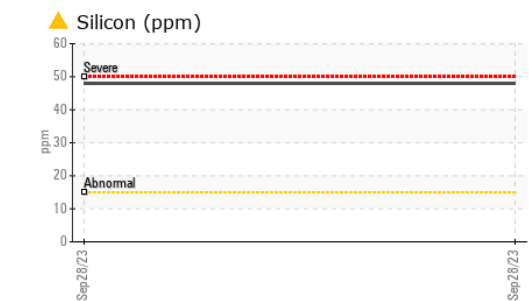
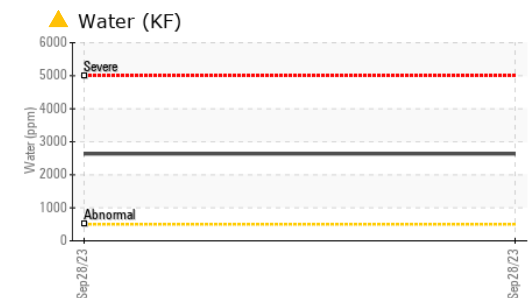
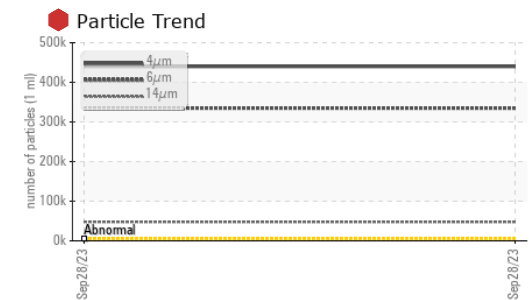
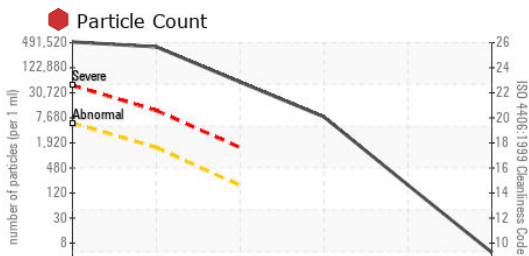
ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 5	<1	---	---
Barium	ppm	ASTM D5185(m) 5	<1	---	---
Molybdenum	ppm	ASTM D5185(m) 5	0	---	---
Manganese	ppm	ASTM D5185(m)	2	---	---
Magnesium	ppm	ASTM D5185(m) 25	13	---	---
Calcium	ppm	ASTM D5185(m) 200	89	---	---
Phosphorus	ppm	ASTM D5185(m) 300	348	---	---
Zinc	ppm	ASTM D5185(m) 370	383	---	---
Sulfur	ppm	ASTM D5185(m) 2500	1520	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	▲ 48	---	---
Sodium	ppm	ASTM D5185(m)	2	---	---
Potassium	ppm	ASTM D5185(m) >20	4	---	---
Water	%	ASTM D6304* >0.05	▲ 0.263	---	---
ppm Water	ppm	ASTM D6304* >500	▲ 2634.0	---	---

OIL ANALYSIS REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	440025	---	---
Particles >6µm	ASTM D7647	>1300	334900	---	---
Particles >14µm	ASTM D7647	>160	47712	---	---
Particles >21µm	ASTM D7647	>40	7013	---	---
Particles >38µm	ASTM D7647	>10	164	---	---
Particles >71µm	ASTM D7647	>3	4	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	26/26/23	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.48	---	---

VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	VLITE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	LIGHT	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.05	.5%	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	46	46.2	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	6.7	6.7	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	97	96	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color				no image	no image
Bottom				no image	no image



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : E30000470
Lab Number : **02587161**
Unique Number : 5656227
Test Package : IND 2 (Additional Tests: KF, KV100, PQ, TAN Man, VI)

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 640 Victoria Street
 Cobourg, ON
 CA K9A 5H5
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 fkosseim@e360s.ca
 T: (905)372-2251
 F: (905)372-1658

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.