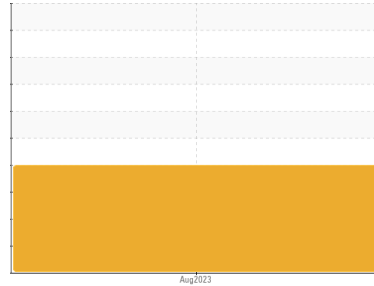


PROBLEM SUMMARY

Sample Rating Trend

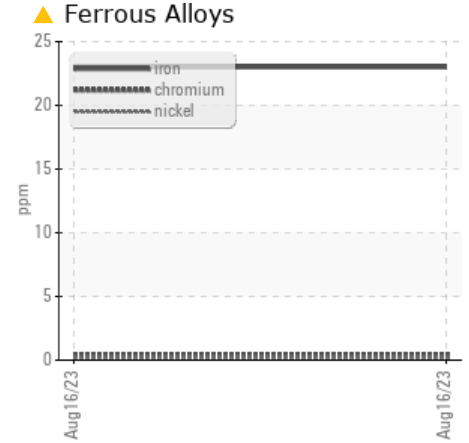
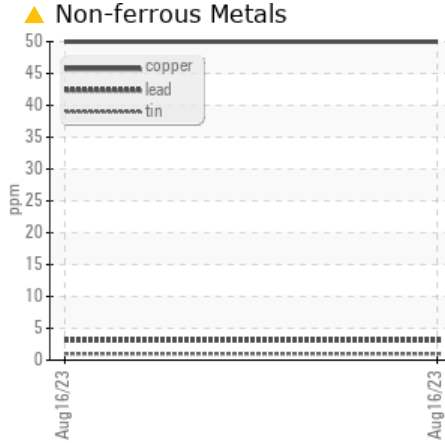
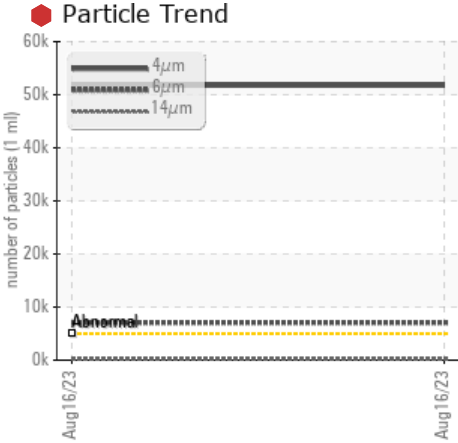


WEAR



Area
AstroShapes - A09300
 Machine Id
M13304
 Component
Hydraulic System
 Fluid
NOT GIVEN (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185(m)	>20	▲ 23	---	---
Copper	ppm	ASTM D5185(m)	>20	▲ 50	---	---
Particles >4µm		ASTM D7647	>5000	◆ 51727	---	---
Particles >6µm		ASTM D7647	>1300	▲ 7053	---	---
Particles >14µm		ASTM D7647	>160	▲ 165	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	◆ 23/20/15	---	---

Customer Id: CHECOB
 Sample No.: E30000112
 Lab Number: 02577486
 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



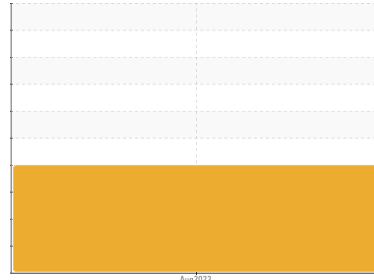
OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area
AstroShapes - A09300
 Machine Id
M13304
 Component
Hydraulic System
 Fluid
NOT GIVEN (--- GAL)



DIAGNOSIS

Recommendation

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

Wear

Copper and iron ppm levels are noted.

Contamination

Oil Cleanliness are severely high. Particles >4µm are severely high. Particles >6µm are abnormally high. Particles >14µm are notably high.

Fluid Condition

{not applicable}

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		E30000112	---	---
Sample Date	Client Info		16 Aug 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*		0	---	---
Iron	ppm	ASTM D5185(m) >20	▲ 23	---	---
Chromium	ppm	ASTM D5185(m) >20	<1	---	---
Nickel	ppm	ASTM D5185(m) >20	<1	---	---
Titanium	ppm	ASTM D5185(m)	<1	---	---
Silver	ppm	ASTM D5185(m)	0	---	---
Aluminum	ppm	ASTM D5185(m) >20	3	---	---
Lead	ppm	ASTM D5185(m) >20	3	---	---
Copper	ppm	ASTM D5185(m) >20	▲ 50	---	---
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)	3	---	---
Barium	ppm	ASTM D5185(m)	0	---	---
Molybdenum	ppm	ASTM D5185(m)	<1	---	---
Manganese	ppm	ASTM D5185(m)	<1	---	---
Magnesium	ppm	ASTM D5185(m)	16	---	---
Calcium	ppm	ASTM D5185(m)	67	---	---
Phosphorus	ppm	ASTM D5185(m)	433	---	---
Zinc	ppm	ASTM D5185(m)	386	---	---
Sulfur	ppm	ASTM D5185(m)	1713	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

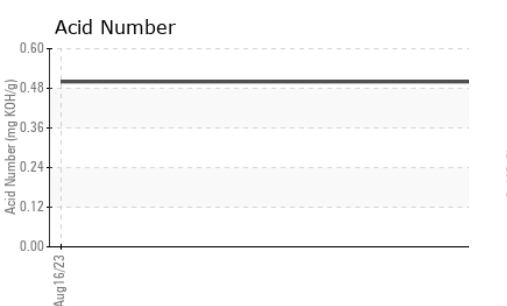
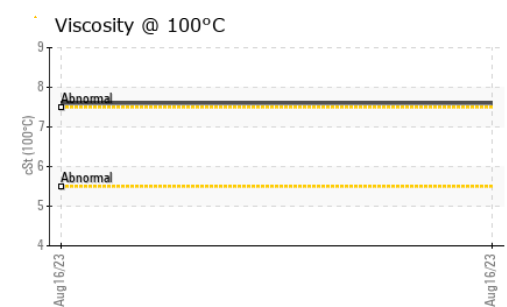
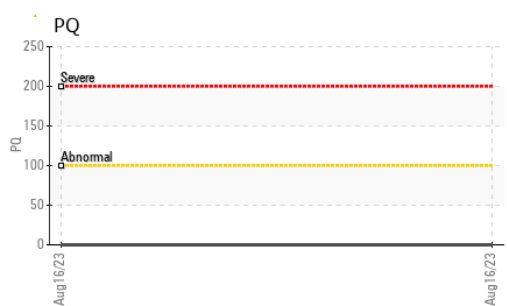
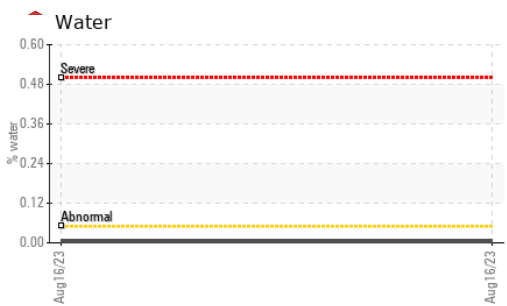
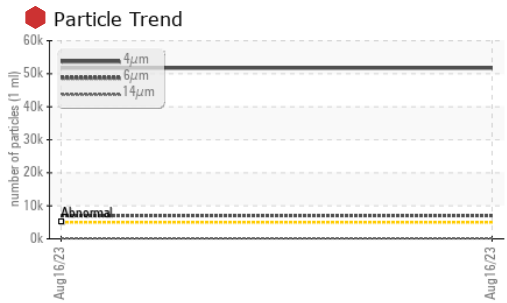
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	2	---	---
Sodium	ppm	ASTM D5185(m)	<1	---	---
Potassium	ppm	ASTM D5185(m) >20	<1	---	---
Water	%	ASTM D6304* >0.05	0.004	---	---
ppm Water	ppm	ASTM D6304* >500	45.2	---	---

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	● 51727	---	---
Particles >6µm	ASTM D7647	>1300	▲ 7053	---	---
Particles >14µm	ASTM D7647	>160	▲ 165	---	---
Particles >21µm	ASTM D7647	>40	32	---	---
Particles >38µm	ASTM D7647	>10	1	---	---
Particles >71µm	ASTM D7647	>3	1	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	● 23/20/15	---	---

OIL ANALYSIS REPORT



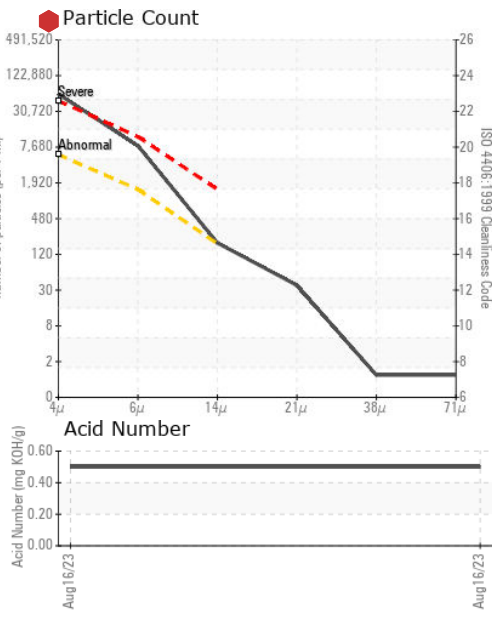
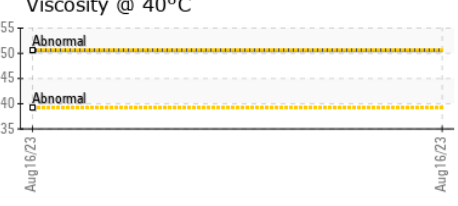
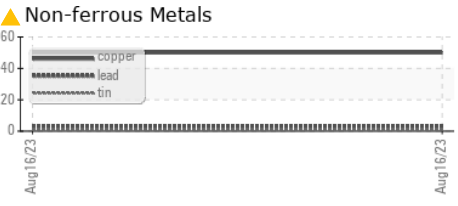
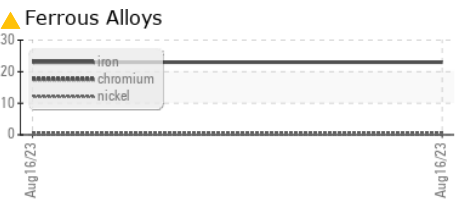
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.50	---	---

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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)		50.6	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		7.6	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		114	---	---

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : E3000112 **Received** : 22 Aug 2023
Lab Number : **02577486** **Diagnosed** : 25 Aug 2023
Unique Number : 5630546 **Diagnostician** : Tatiana Sorkina
Test Package : IND 2 (Additional Tests: KF, KV100, PQ, TAN Man, VI)

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 CA K9A 5H5
 Contact: Tatiana Sorkina
 tsorkina@e360s.ca
 T: (800)263-3939
 F: (905)373-4950

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.