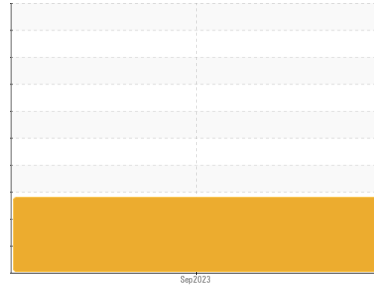


PROBLEM SUMMARY

Area
H&S Heat Treating
 Machine Id
AM911
 Component
Quench Oil
 Fluid
NOT GIVEN (--- GAL)

Sample Rating Trend

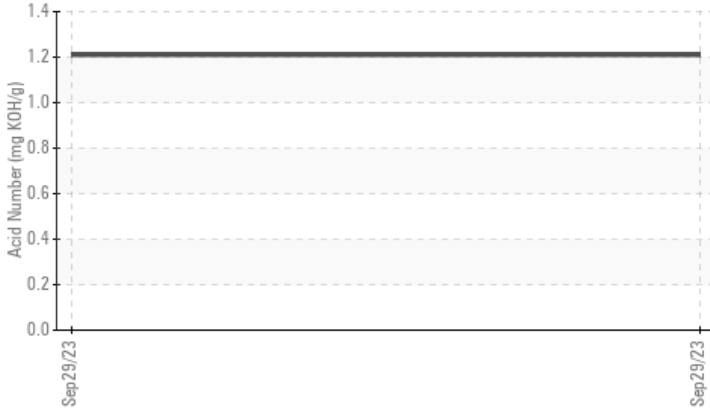


DEGRADATION

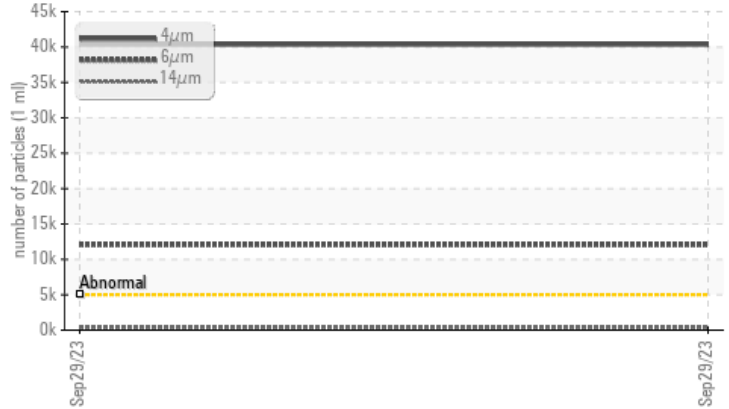


COMPONENT CONDITION SUMMARY

▲ Acid Number



▲ Particle Trend



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	---	---
Particles >4µm	ASTM D7647	>5000	▲ 40361	---	---
Particles >6µm	ASTM D7647	>1300	▲ 12064	---	---
Particles >14µm	ASTM D7647	>160	▲ 358	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 23/21/16	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*	▲ 1.21	---	---

Customer Id: CHECOB
 Sample No.: E30000491
 Lab Number: 02588619
 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



DEGRADATION



Area
H&S Heat Treating
 Machine Id
AM911
 Component
Quench Oil
 Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

- ▲ **Recommendation**
 This is a baseline read-out on the submitted sample.
- Wear**
 {not applicable}
- ▲ **Contamination**
 Oil Cleanliness are abnormally high. Particles >4µm are abnormally high. Particles >6µm are abnormally high. Particles >14µm are abnormally high.
- ▲ **Fluid Condition**
 Acid Number (AN) is abnormally high.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Batch #	Client Info		AM911	---	---
Machine ID	Client Info		Sales	---	---
Department	Client Info		Machine	---	---
Sample From	Client Info		Initial	---	---
Production Stage	Client Info		10/10/2023	---	---
Sample Number	Client Info		E30000491	---	---
Sample Date	Client Info		29 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)	4	---	---
Chromium	ppm	ASTM D5185(m)	0	---	---
Nickel	ppm	ASTM D5185(m)	<1	---	---
Titanium	ppm	ASTM D5185(m)	0	---	---
Silver	ppm	ASTM D5185(m)	<1	---	---
Aluminum	ppm	ASTM D5185(m)	<1	---	---
Lead	ppm	ASTM D5185(m)	0	---	---
Copper	ppm	ASTM D5185(m)	<1	---	---
Tin	ppm	ASTM D5185(m)	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	---	---

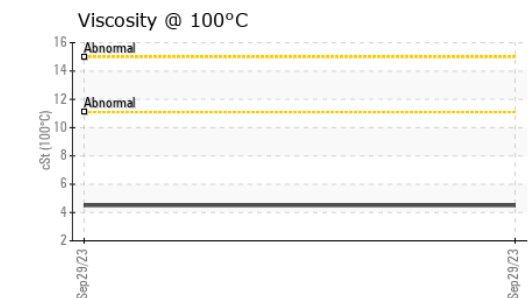
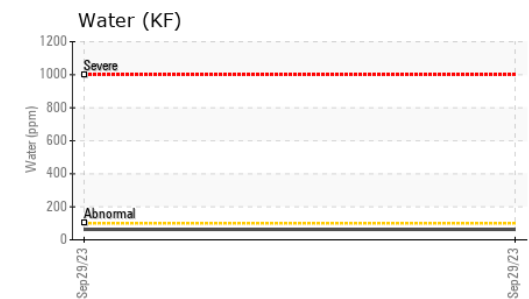
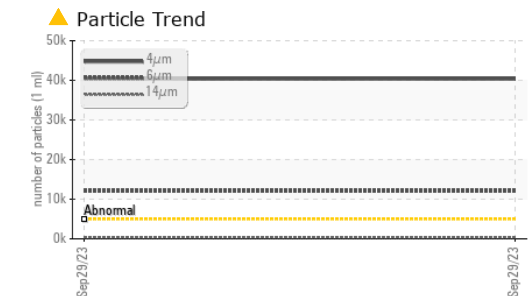
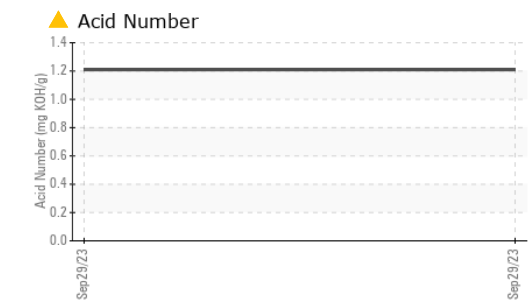
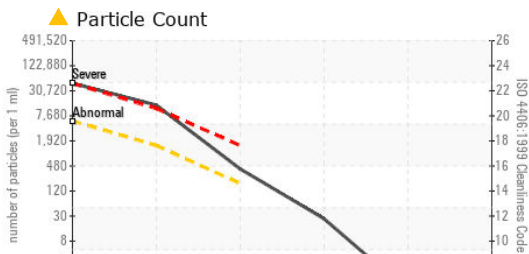
ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<1	---	---
Barium	ppm	ASTM D5185(m)	0	---	---
Molybdenum	ppm	ASTM D5185(m)	0	---	---
Manganese	ppm	ASTM D5185(m)	0	---	---
Magnesium	ppm	ASTM D5185(m)	0	---	---
Calcium	ppm	ASTM D5185(m)	<1	---	---
Phosphorus	ppm	ASTM D5185(m)	<1	---	---
Zinc	ppm	ASTM D5185(m)	15	---	---
Sulfur	ppm	ASTM D5185(m)	1333	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1	---	---
Sodium	ppm	ASTM D5185(m)	0	---	---
Potassium	ppm	ASTM D5185(m) >20	0	---	---
Water	%	ASTM D6304*	0.006	---	---
ppm Water	ppm	ASTM D6304*	63.3	---	---

OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : E30000491
Lab Number : 02588619
Unique Number : 5657685
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, TAN Man, 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: Aylwin Lee
 aylwinlee@e360s.ca
 T: (905)372-2251
 F: (905)373-4950

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 40361	---	---
Particles >6µm	ASTM D7647	>1300	▲ 12064	---	---
Particles >14µm	ASTM D7647	>160	▲ 358	---	---
Particles >21µm	ASTM D7647	>40	23	---	---
Particles >38µm	ASTM D7647	>10	0	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 23/21/16	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	▲ 1.21	---	---

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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	23.2	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	4.5	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	105	---	---

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