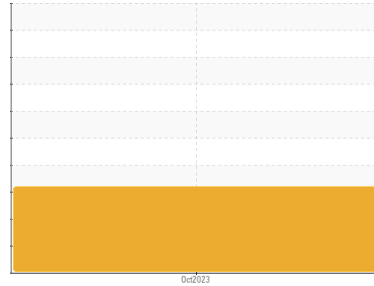


PROBLEM SUMMARY

Sample Rating Trend



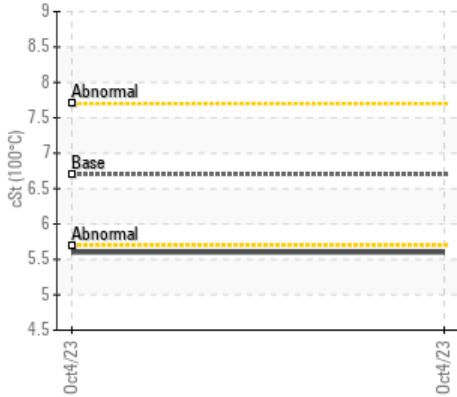
VISCOSITY



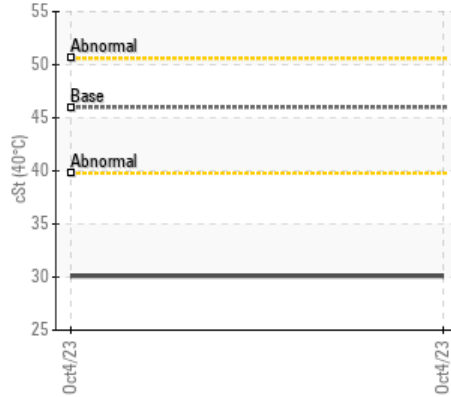
Area
Queensway Transfer & Process
 Machine Id
AM913
 Component
Hydraulic System
 Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)

COMPONENT CONDITION SUMMARY

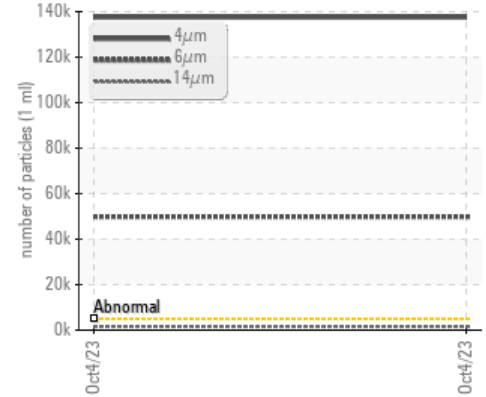
▲ Viscosity @ 100°C



▲ Viscosity @ 40°C



▲ Particle Trend



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status	ASTM	Value	Result	---	---
Particles >4µm	ASTM D7647	>5000	▲ 137511	---	---
Particles >6µm	ASTM D7647	>1300	▲ 49837	---	---
Particles >14µm	ASTM D7647	>160	▲ 1541	---	---
Particles >21µm	ASTM D7647	>40	▲ 315	---	---
Particles >38µm	ASTM D7647	>10	▲ 26	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 24/23/18	---	---
Visc @ 40°C	cSt ASTM D7279(m)	46	▲ 30.1	---	---
Visc @ 100°C	cSt ASTM D7279(m)	6.7	▲ 5.6	---	---

Customer Id: CHECOB
 Sample No.: E30000515
 Lab Number: 02589614
 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



VISCOSITY



Area
Queensway Transfer & Process
 Machine Id
AM913
 Component
Hydraulic System
 Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)

DIAGNOSIS

Recommendation

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

Wear

{not applicable}

Contamination

Oil Cleanliness are abnormally high. Particles >14µm are abnormally high. Particles >4µm are abnormally high. Particles >6µm are abnormally high. Particles >38µm are abnormally high. Particles >21µm are abnormally high.

Fluid Condition

Visc @ 100°C is abnormally low. Visc @ 40°C is abnormally low.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Batch #	Client Info		AM913	---	---
Machine ID	Client Info		Sales	---	---
Department	Client Info		Machine	---	---
Sample From	Client Info		Initial	---	---
Production Stage	Client Info		10/13/2023	---	---
Sample Number	Client Info		E30000515	---	---
Sample Date	Client Info		04 Oct 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) >20	5	---	---
Chromium	ppm	ASTM D5185(m) >20	<1	---	---
Nickel	ppm	ASTM D5185(m) >20	<1	---	---
Titanium	ppm	ASTM D5185(m)	0	---	---
Silver	ppm	ASTM D5185(m)	<1	---	---
Aluminum	ppm	ASTM D5185(m) >20	0	---	---
Lead	ppm	ASTM D5185(m) >20	<1	---	---
Copper	ppm	ASTM D5185(m) >20	<1	---	---
Tin	ppm	ASTM D5185(m) >20	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	---	---

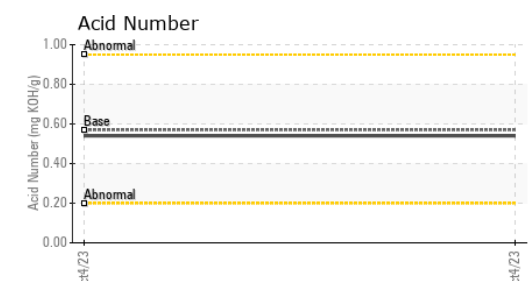
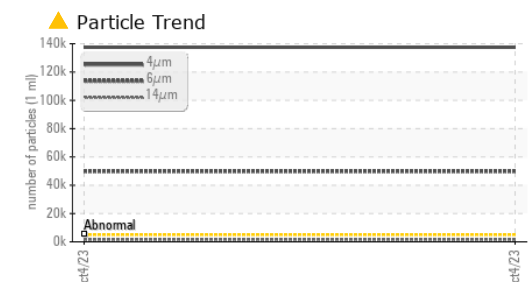
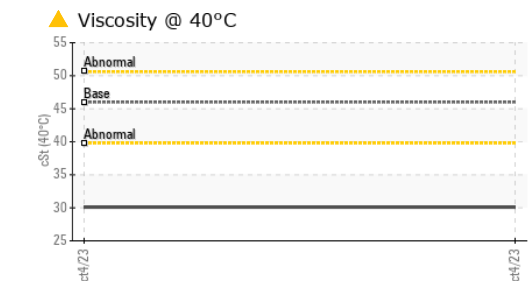
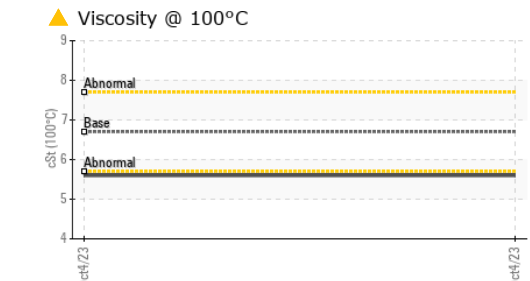
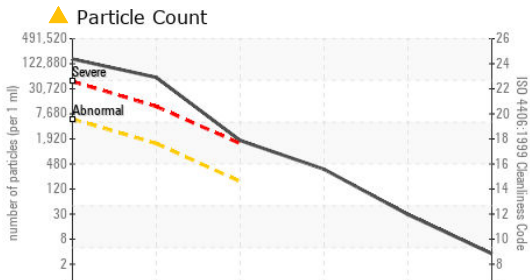
ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 5	<1	---	---
Barium	ppm	ASTM D5185(m) 5	8	---	---
Molybdenum	ppm	ASTM D5185(m) 5	0	---	---
Manganese	ppm	ASTM D5185(m)	0	---	---
Magnesium	ppm	ASTM D5185(m) 25	<1	---	---
Calcium	ppm	ASTM D5185(m) 200	9	---	---
Phosphorus	ppm	ASTM D5185(m) 300	355	---	---
Zinc	ppm	ASTM D5185(m) 370	413	---	---
Sulfur	ppm	ASTM D5185(m) 2500	951	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	<1	---	---
Sodium	ppm	ASTM D5185(m)	<1	---	---
Potassium	ppm	ASTM D5185(m) >20	0	---	---
Water	%	ASTM D6304* >0.05	0.001	---	---
ppm Water	ppm	ASTM D6304* >500	7.9	---	---

OIL ANALYSIS REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 137511	---	---
Particles >6µm	ASTM D7647	>1300	▲ 49837	---	---
Particles >14µm	ASTM D7647	>160	▲ 1541	---	---
Particles >21µm	ASTM D7647	>40	▲ 315	---	---
Particles >38µm	ASTM D7647	>10	▲ 26	---	---
Particles >71µm	ASTM D7647	>3	▲ 3	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 24/23/18	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.54	---	---

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	VLITE	---
Sand/Dirt	scalar	Visual*	NONE	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)	46	▲ 30.1	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	6.7	▲ 5.6	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	97	126	---	---

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



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : E30000515
Lab Number : 02589614
Unique Number : 5658680
Test Package : IND 2 (Additional Tests: KF, KV100, VI)

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

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.