



PROBLEM SUMMARY

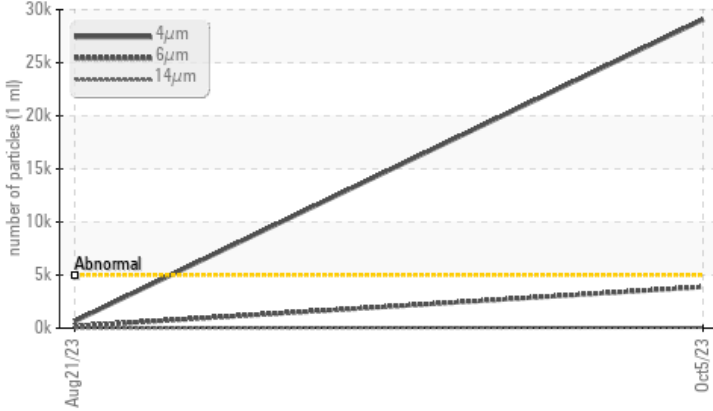
Area
Sorel Forge - L01900
 Machine Id
PG072
 Component
Hydraulic System
 Fluid
CHEM-ECOL PUREPROTECT 46 ZFD (--- GAL)

Sample Rating Trend



COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	NORMAL	---
Particles >4µm	ASTM D7647	>5000	▲ 29067	649	---
Particles >6µm	ASTM D7647	>1300	▲ 3884	184	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 22/19/13	17/15/10	---

Customer Id: CHECOB
 Sample No.: E30000544
 Lab Number: 02590635
 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

21 Aug 2023 Diag: Tatiana Sorkina

NORMAL



This is a baseline read-out on the submitted sample.{not applicable} {not applicable} {not applicable}

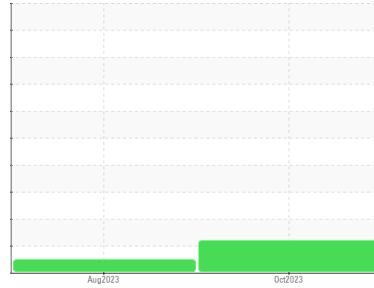
view report





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
Sorel Forge - L01900
 Machine Id
PG072
 Component
Hydraulic System
 Fluid
CHEM-ECOL PUREPROTECT 46 ZFD (--- GAL)

DIAGNOSIS

- ▲ **Recommendation**
 This is a baseline read-out on the submitted sample.
- Wear**
 {not applicable}
- ▲ **Contamination**
 Particles >4µm are abnormally high. Particles >6µm and oil cleanliness are abnormally high.
- Fluid Condition**
 {not applicable}

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Batch #	Client Info		PG072	---	---
Machine ID	Client Info		Sales	---	---
Department	Client Info		Machine	---	---
Sample From	Client Info		Initial	---	---
Production Stage	Client Info		10/18/2023	---	---
Sample Number	Client Info		E30000544	E30000172	---
Sample Date	Client Info		05 Oct 2023	21 Aug 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			ABNORMAL	NORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >20	4	<1	---
Chromium	ppm	ASTM D5185(m) >20	<1	0	---
Nickel	ppm	ASTM D5185(m) >20	<1	<1	---
Titanium	ppm	ASTM D5185(m)	0	0	---
Silver	ppm	ASTM D5185(m)	<1	0	---
Aluminum	ppm	ASTM D5185(m) >20	<1	0	---
Lead	ppm	ASTM D5185(m) >20	<1	0	---
Copper	ppm	ASTM D5185(m) >20	2	<1	---
Tin	ppm	ASTM D5185(m) >20	0	0	---
Antimony	ppm	ASTM D5185(m)	0	<1	---
Vanadium	ppm	ASTM D5185(m)	0	0	---
Beryllium	ppm	ASTM D5185(m)	0	0	---
Cadmium	ppm	ASTM D5185(m)	0	0	---

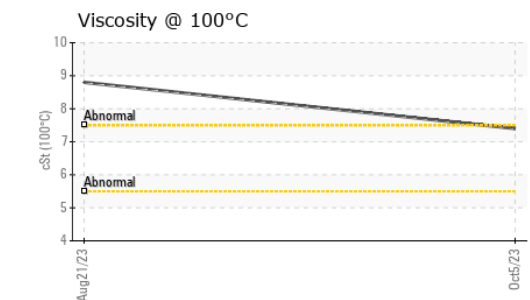
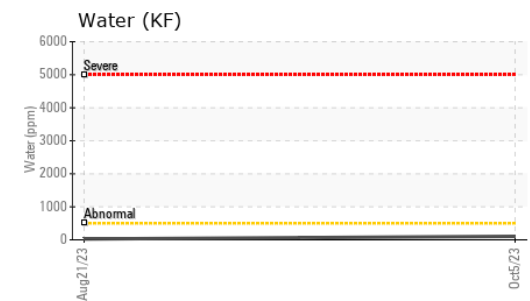
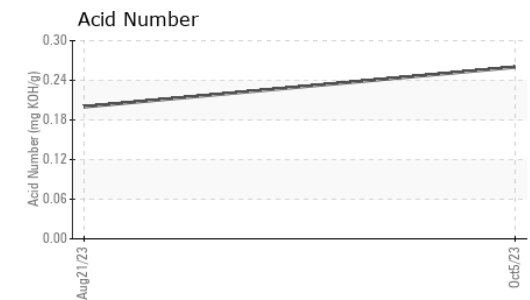
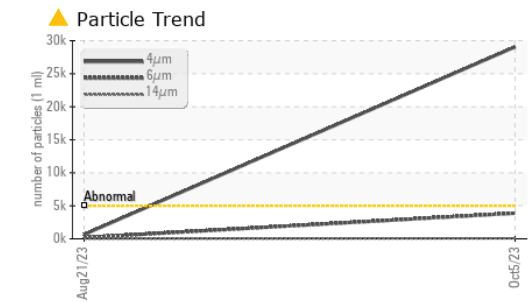
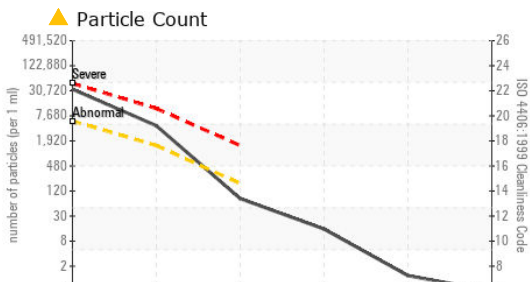
ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<1	<1	---
Barium	ppm	ASTM D5185(m)	<1	0	---
Molybdenum	ppm	ASTM D5185(m)	0	0	---
Manganese	ppm	ASTM D5185(m)	0	0	---
Magnesium	ppm	ASTM D5185(m)	2	<1	---
Calcium	ppm	ASTM D5185(m)	193	26	---
Phosphorus	ppm	ASTM D5185(m)	174	190	---
Zinc	ppm	ASTM D5185(m)	29	3	---
Sulfur	ppm	ASTM D5185(m)	1100	6022	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	<1	<1	---
Sodium	ppm	ASTM D5185(m)	2	0	---
Potassium	ppm	ASTM D5185(m) >20	1	<1	---
Water	%	ASTM D6304* >0.05	0.010	0.003	---
ppm Water	ppm	ASTM D6304* >500	105.6	25.5	---

OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : E30000544
Lab Number : 02590635
Unique Number : 5659701
Test Package : IND 2 (Additional Tests: KF, KV100, VI)

To discuss this sample report, contact Customer Service at 1-905-372-2251.
 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: Fred Kosseim
 fkosseim@e360s.ca
 T: (905)372-2251
 F: (905)372-1658

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 29067	649	---
Particles >6µm	ASTM D7647	>1300	▲ 3884	184	---
Particles >14µm	ASTM D7647	>160	70	10	---
Particles >21µm	ASTM D7647	>40	13	3	---
Particles >38µm	ASTM D7647	>10	1	1	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 22/19/13	17/15/10	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*		0.26	0.20	---

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 PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D7279(m)		46.9	68.3	---
Visc @ 100°C	cSt ASTM D7279(m)		7.4	8.8	---
Viscosity Index (VI)	Scale ASTM D2270*		120	101	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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