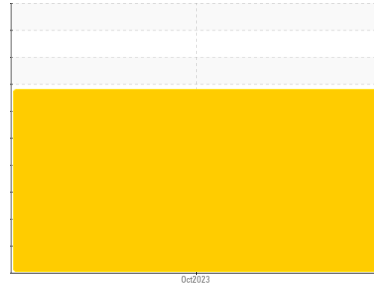


PROBLEM SUMMARY

Area
Alpha Casting
 Machine Id
PG073
 Component
Hydraulic System
 Fluid
AQUAQUENCH 700 (--- GAL)

Sample Rating Trend

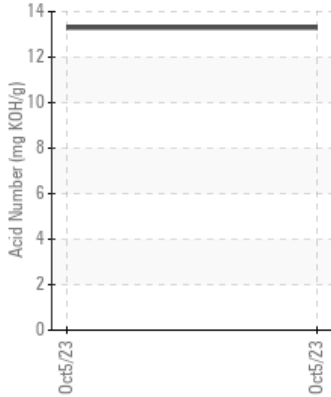


DEGRADATION

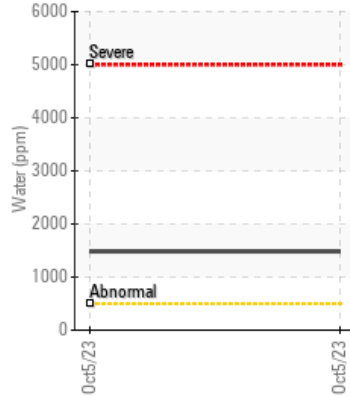


COMPONENT CONDITION SUMMARY

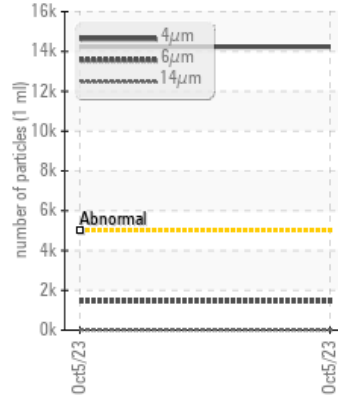
Acid Number



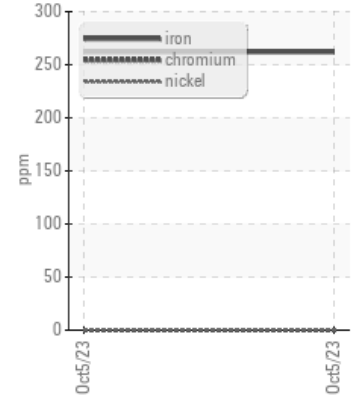
Water (KF)



Particle Trend



Ferrous Alloys



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185(m)	>20	▲ 262	---	---
Water	%	ASTM D6304*	>0.05	▲ 0.148	---	---
ppm Water	ppm	ASTM D6304*	>500	▲ 1483.7	---	---
Particles >4µm		ASTM D7647	>5000	▲ 14235	---	---
Particles >6µm		ASTM D7647	>1300	▲ 1450	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/18/11	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*		◆ 13.3	---	---

Customer Id: CHECOB
 Sample No.: E30000545
 Lab Number: 02590765
 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
Alpha Casting
 Machine Id
PG073
 Component
Hydraulic System
 Fluid
AQUAQUENCH 700 (--- GAL)

DIAGNOSIS

- Recommendation**
 This is a baseline read-out on the submitted sample.
- Wear**
 Iron ppm levels are noted.
- Contamination**
 Water and ppm water contamination levels are abnormal. Particles >4µm and oil cleanliness are abnormally high. Particles >6µm are notably high.
- Fluid Condition**
 Acid Number (AN) is severely high.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Batch #	Client Info		PG073	---	---
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		E30000545	---	---
Sample Date	Client Info		05 Oct 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	▲ 262	---	---
Chromium	ppm	ASTM D5185(m) >20	0	---	---
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	18	---	---
Lead	ppm	ASTM D5185(m) >20	0	---	---
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	---	---

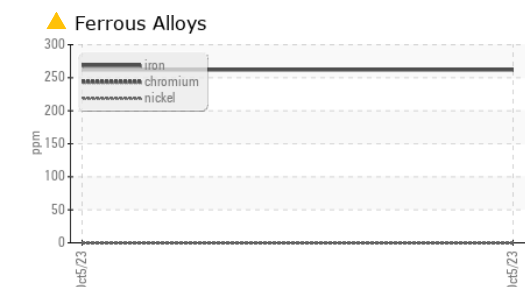
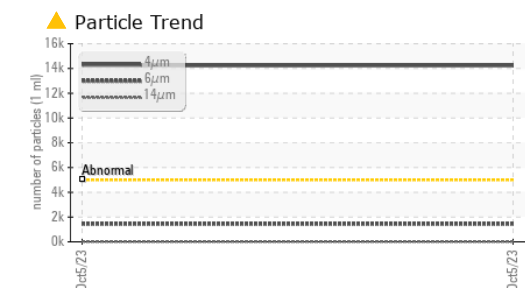
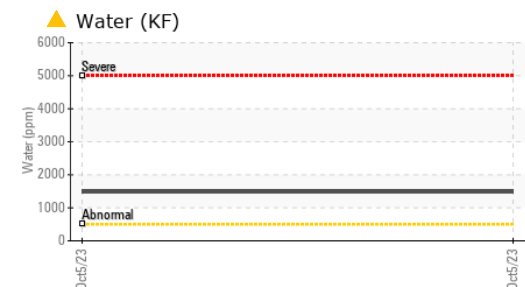
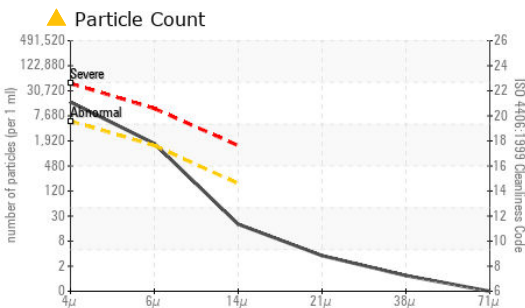
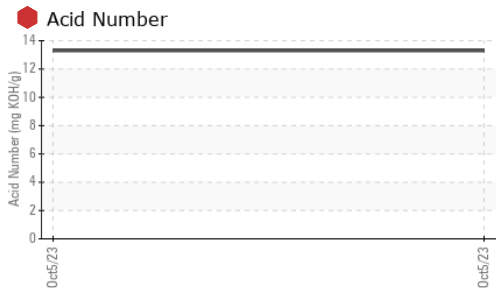
ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	---	---
Barium	ppm	ASTM D5185(m)	0	---	---
Molybdenum	ppm	ASTM D5185(m)	0	---	---
Manganese	ppm	ASTM D5185(m)	0	---	---
Magnesium	ppm	ASTM D5185(m)	<1	---	---
Calcium	ppm	ASTM D5185(m)	<1	---	---
Phosphorus	ppm	ASTM D5185(m)	4	---	---
Zinc	ppm	ASTM D5185(m)	3	---	---
Sulfur	ppm	ASTM D5185(m)	583	---	---
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	<1	---	---
Water	%	ASTM D6304* >0.05	▲ 0.148	---	---
ppm Water	ppm	ASTM D6304* >500	▲ 1483.7	---	---

OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : E30000545
Lab Number : 02590765
Unique Number : 5659831
Test Package : IND 2 (Additional Tests: KF, KV100, PQ, TAN Man, VI)

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

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.

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 14235	---	---
Particles >6µm	ASTM D7647	>1300	▲ 1450	---	---
Particles >14µm	ASTM D7647	>160	17	---	---
Particles >21µm	ASTM D7647	>40	3	---	---
Particles >38µm	ASTM D7647	>10	1	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 21/18/11	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	▲ 13.3	---	---

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)	40.2	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	8.3	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	188	---	---

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