

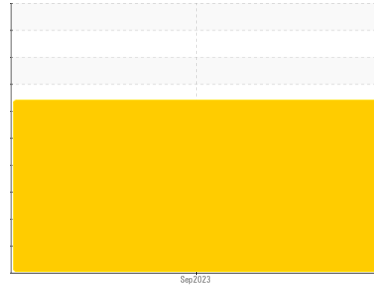
PROBLEM SUMMARY

Sample Rating Trend

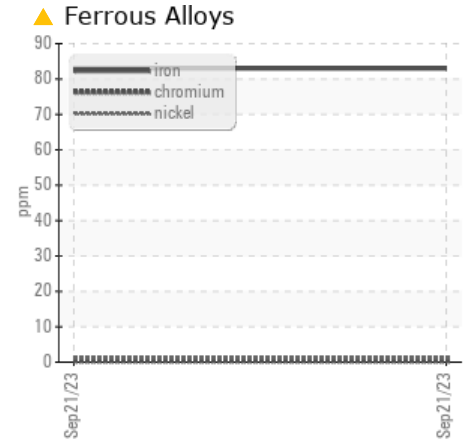
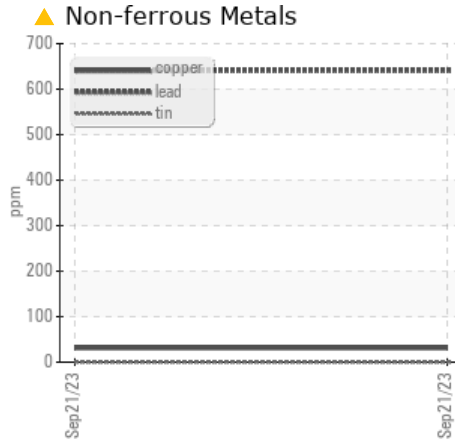
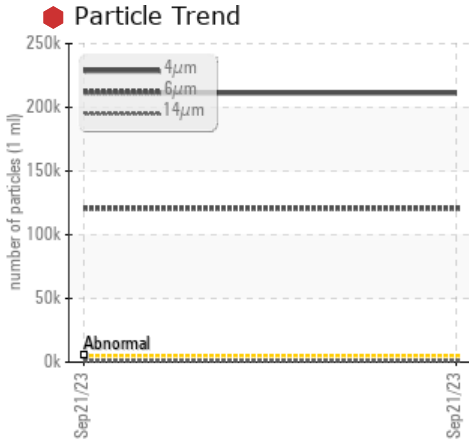
ISO



Area
Kilian Mfg. - K02400
 Machine Id
AM905
 Component
Hydraulic System
 Fluid
CHEM-ECOL LUBECUT 101 (--- 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	▲ 83	---	---
Lead	ppm	ASTM D5185(m)	>20	▲ 641	---	---
Copper	ppm	ASTM D5185(m)	>20	▲ 31	---	---
Particles >4µm		ASTM D7647	>5000	● 211201	---	---
Particles >6µm		ASTM D7647	>1300	● 120682	---	---
Particles >14µm		ASTM D7647	>160	▲ 1067	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	● 25/24/17	---	---

Customer Id: CHECOB
 Sample No.: E30000406
 Lab Number: 02585849
 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

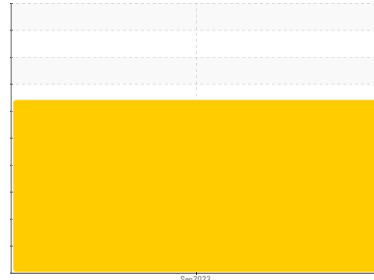
There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
Kilian Mfg. - K02400
 Machine Id
AM905
 Component
Hydraulic System
 Fluid
CHEM-ECOL LUBECUT 101 (--- GAL)

DIAGNOSIS

Recommendation

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

Wear

Copper, iron and lead ppm levels are noted.

Contamination

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

Fluid Condition

{not applicable}

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Batch #	Client Info		AM905	---	---
Machine ID	Client Info		Sales	---	---
Sample Number	Client Info		E30000406	---	---
Sample Date	Client Info		21 Sep 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	▲ 83	---	---
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	2	---	---
Lead	ppm	ASTM D5185(m) >20	▲ 641	---	---
Copper	ppm	ASTM D5185(m) >20	▲ 31	---	---
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	---	---

SULFUR CONTENT

	method	limit/base	current	history1	history2
Total Sulfur	%	ASTM D1552	0.91	---	---
Active Sulfur	%	ASTM D1662	0.03	---	---

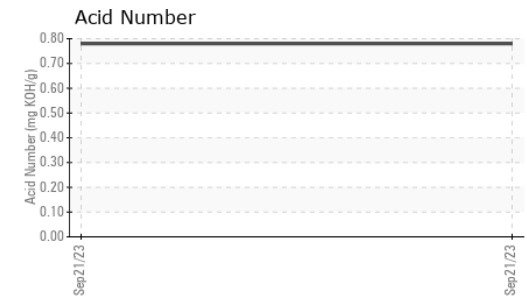
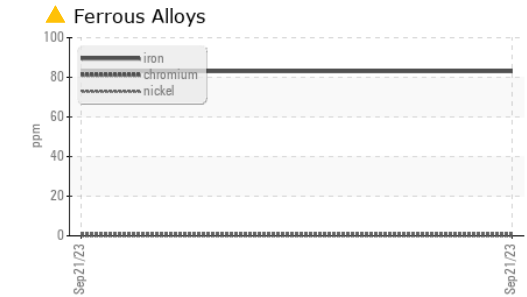
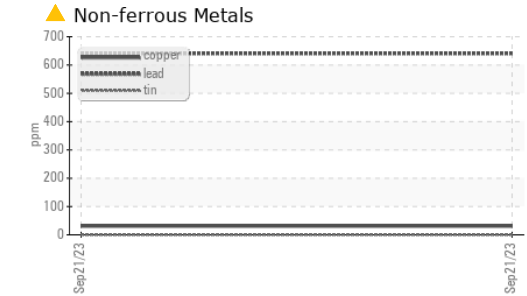
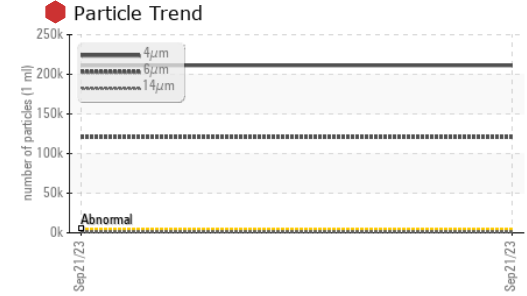
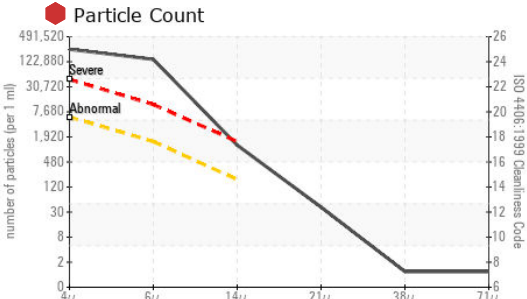
ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	3	---	---
Barium	ppm	ASTM D5185(m)	5	---	---
Molybdenum	ppm	ASTM D5185(m)	0	---	---
Manganese	ppm	ASTM D5185(m)	103	---	---
Magnesium	ppm	ASTM D5185(m)	135	---	---
Calcium	ppm	ASTM D5185(m)	1240	---	---
Phosphorus	ppm	ASTM D5185(m)	680	---	---
Zinc	ppm	ASTM D5185(m)	579	---	---
Sulfur	ppm	ASTM D5185(m)	9992	---	---
Lithium	ppm	ASTM D5185(m)	1	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	10	---	---
Sodium	ppm	ASTM D5185(m)	5	---	---
Potassium	ppm	ASTM D5185(m) >20	2	---	---
Water	%	ASTM D6304* >0.05	0.023	---	---
ppm Water	ppm	ASTM D6304* >500	231.3	---	---

OIL ANALYSIS REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	● 211201	---	---
Particles >6µm	ASTM D7647	>1300	● 120682	---	---
Particles >14µm	ASTM D7647	>160	▲ 1067	---	---
Particles >21µm	ASTM D7647	>40	35	---	---
Particles >38µm	ASTM D7647	>10	1	---	---
Particles >71µm	ASTM D7647	>3	1	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	● 25/24/17	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.78	---	---

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)	32	34.7	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		6.1	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		123	---	---

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 **Environmental 360 Solutions Ltd.**
Sample No. : E30000406 **Received** : 28 Sep 2023 **640 Victoria Street**
Lab Number : 02585849 **Diagnosed** : 12 Oct 2023 **Cobourg, ON**
Unique Number : 5654915 **Diagnostician** : Tatiana Sorkina **CA K9A 5H5**
Test Package : IND 2 (Additional Tests: KF, KV100, PQ, Sulphur-Active, Sulphur-Total, VI) **Contact: Fred Kosseim**
To discuss this sample report, contact Customer Service at 1-800-268-2131. **fkosseim@e360s.ca**
Test denoted () outside scope of accreditation, (m) method modified, (e) tested at external lab.* **T: (905)372-2251**
Validity of results and interpretation are based on the sample and information as supplied. **F: (905)372-1658**