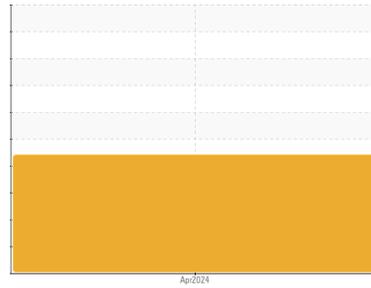




PROBLEM SUMMARY

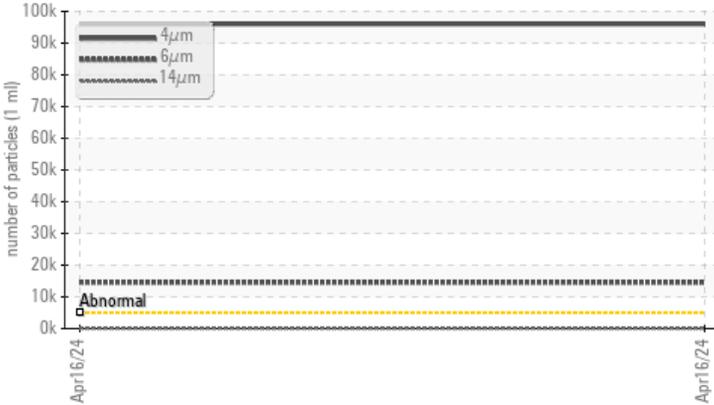
Area
FIO Automotive - F03000
 Machine Id
A2404109
 Component
Lube System
 Fluid
AW HYDRAULIC OIL ISO 100 (--- GAL)

Sample Rating Trend

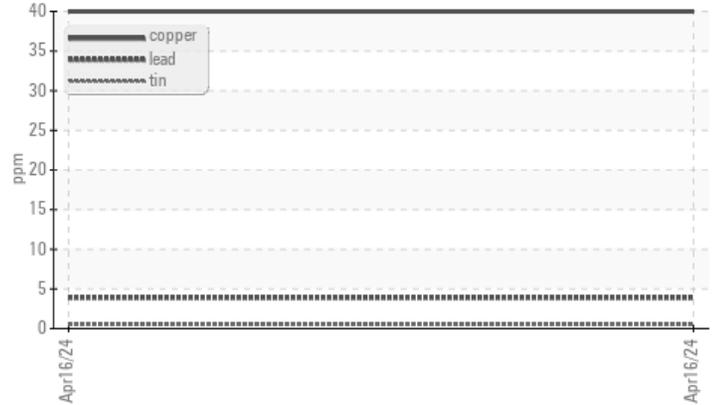


COMPONENT CONDITION SUMMARY

▲ Particle Trend



● Non-ferrous Metals



RECOMMENDATION

The sample submitted is 32 times dirtier than the ISO dirt count recommendation of 19/16/14.

PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	---	---
Particles >4µm	ASTM D7647	>5000	▲ 96015	---	---
Particles >6µm	ASTM D7647	>640	▲ 14563	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16/14	▲ 24/21/14	---	---

Customer Id: CHECOB
 Sample No.: E30001900
 Lab Number: 02630223
 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
FIO Automotive - F03000
 Machine ID
A2404109
 Component
Lube System
 Fluid
AW HYDRAULIC OIL ISO 100 (--- GAL)

DIAGNOSIS

- ▲ **Recommendation**
 The sample submitted is 32 times dirtier than the ISO dirt count recommendation of 19/16/14.
- **Wear**
 Copper ppm levels are noted.
- ▲ **Contamination**
 Particles >6µm are severely high. Particles >4µm and oil cleanliness are severely high.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Batch #	Client Info		Mobile	---	---
Machine ID	Client Info		T1 Lube	---	---
Department	Client Info		Production	---	---
Sample From	Client Info		Machine	---	---
Production Stage	Client Info		Initial	---	---
Sent to WC	Client Info		04/17/2024	---	---
Sample Number	Client Info		E30001900	---	---
Sample Date	Client Info		16 Apr 2024	---	---
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
Iron	ppm	ASTM D5185(m) >20	7	---	---
Chromium	ppm	ASTM D5185(m) >20	0	---	---
Nickel	ppm	ASTM D5185(m) >20	0	---	---
Titanium	ppm	ASTM D5185(m)	0	---	---
Silver	ppm	ASTM D5185(m)	0	---	---
Aluminum	ppm	ASTM D5185(m) >20	0	---	---
Lead	ppm	ASTM D5185(m) >20	4	---	---
Copper	ppm	ASTM D5185(m) >20	40	---	---
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	---	---

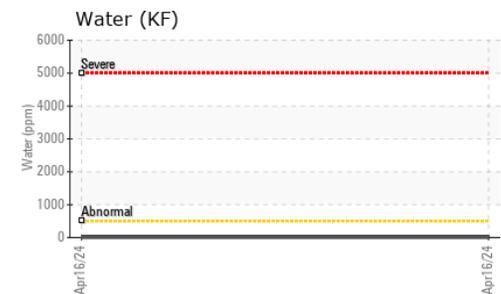
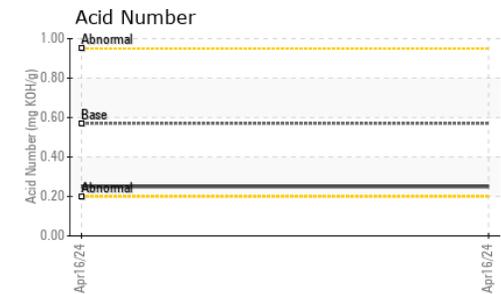
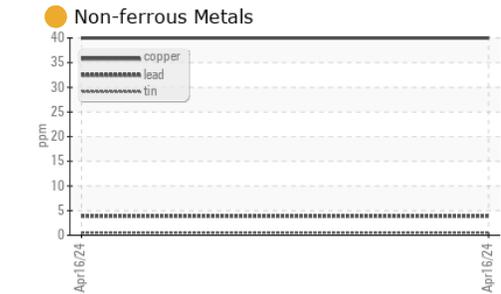
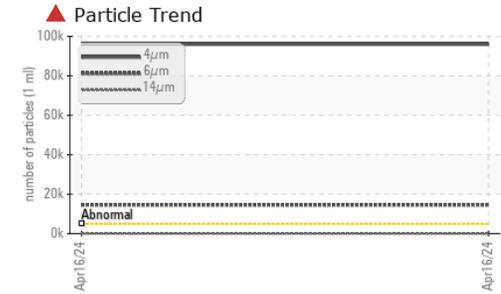
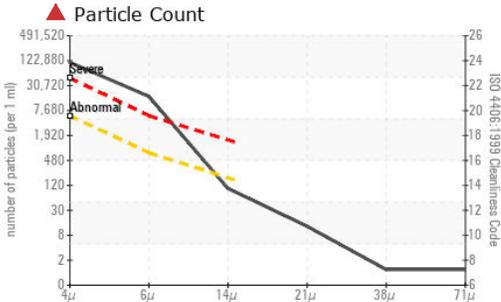
ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 5	0	---	---
Barium	ppm	ASTM D5185(m) 5	<1	---	---
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	27	---	---
Phosphorus	ppm	ASTM D5185(m) 300	271	---	---
Zinc	ppm	ASTM D5185(m) 370	283	---	---
Sulfur	ppm	ASTM D5185(m) 2500	763	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	2	---	---
Sodium	ppm	ASTM D5185(m)	0	---	---
Potassium	ppm	ASTM D5185(m) >20	0	---	---
Water	%	ASTM D6304* >0.05	0.001	---	---
ppm Water	ppm	ASTM D6304* >500	8	---	---

OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : E30001900
Lab Number : 02630223
Unique Number : 5763355
Test Package : IND 2 (Additional Tests: KF, KV100, VI)
Received : 19 Apr 2024
Tested : 23 Apr 2024
Diagnosed : 24 Apr 2024 - Tatiana Sorkina

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.

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 640 Victoria Street
 Cobourg, ON
 CA K9A 5H5
 Contact: Tatiana Sorkina
 tsorkina@e360s.ca
 T: (800)263-3939
 F: (905)373-4950

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 96015	---	---
Particles >6µm	ASTM D7647	>640	▲ 14563	---	---
Particles >14µm	ASTM D7647	>160	89	---	---
Particles >21µm	ASTM D7647	>40	11	---	---
Particles >38µm	ASTM D7647	>10	1	---	---
Particles >71µm	ASTM D7647	>3	1	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16/14	▲ 24/21/14	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.25	---	---

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)	100	89.0	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	11.2	10.9	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	97	107	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					