



# PROBLEM SUMMARY

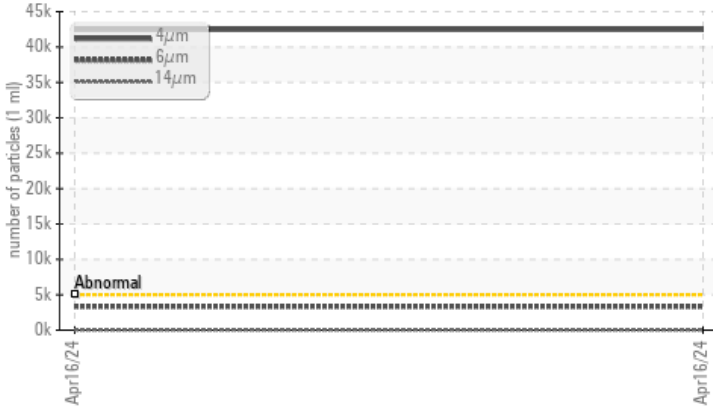
Area  
**FIO Automotive - F03000**  
 Machine Id  
**A2404107**  
 Component  
**Lube System**  
 Fluid  
**AW HYDRAULIC OIL ISO 100 (--- GAL)**

## Sample Rating Trend



## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## RECOMMENDATION

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

## PROBLEMATIC TEST RESULTS

Sample Status			<b>SEVERE</b>	---	---
Particles >4µm	ASTM D7647	>5000	▲ <b>42454</b>	---	---
Particles >6µm	ASTM D7647	>640	▲ <b>3334</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16/14	▲ <b>23/19/12</b>	---	---

Customer Id: CHECOB  
 Sample No.: E30001898  
 Lab Number: 02630225  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
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 Gloria Gonzalez +1 (289)291-4643 x4643  
[gloria.gonzalez@wearcheck.com](mailto:gloria.gonzalez@wearcheck.com)

## RECOMMENDED ACTIONS

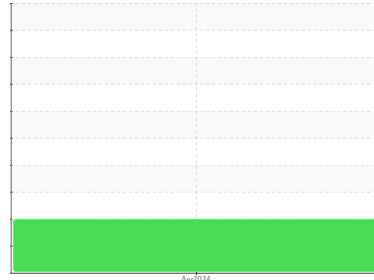
*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area  
**FIO Automotive - F03000**  
 Machine ID  
**A2404107**  
 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.

### ▲ Contamination

Particles >4µm are abnormally high. Particles >6µm and oil cleanliness are abnormally high.

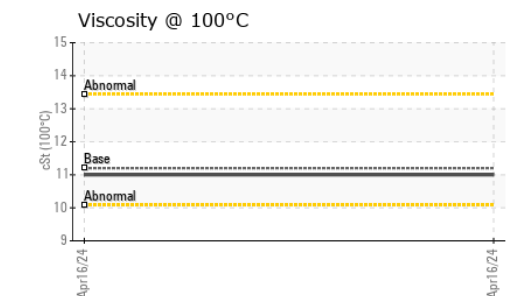
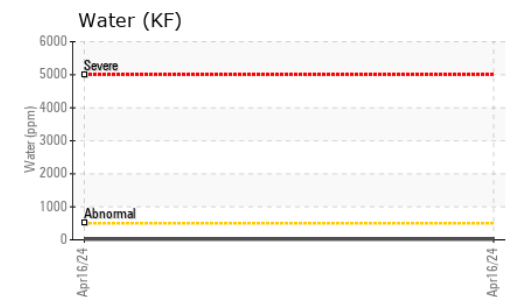
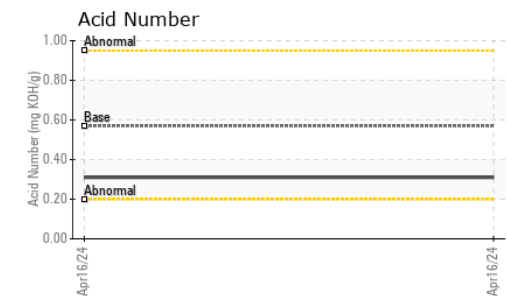
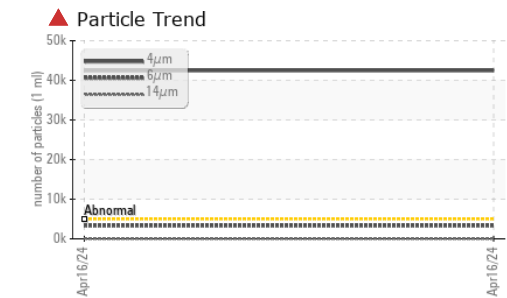
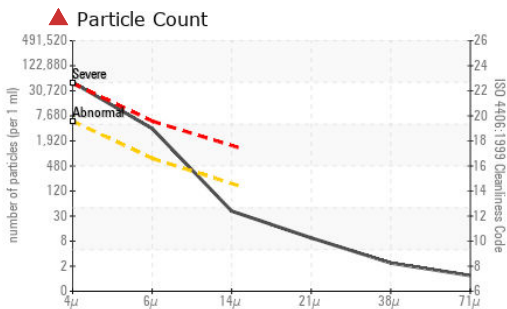
SAMPLE INFORMATION		method	limit/base	current	history1	history2
Batch #	Client Info			<b>Mobile</b>	---	---
Machine ID	Client Info			<b>T2 Lube</b>	---	---
Department	Client Info			<b>Production</b>	---	---
Sample From	Client Info			<b>Machine</b>	---	---
Production Stage	Client Info			<b>Initial</b>	---	---
Sent to WC	Client Info			<b>04/17/2024</b>	---	---
Sample Number	Client Info			<b>E30001898</b>	---	---
Sample Date	Client Info			<b>16 Apr 2024</b>	---	---
Machine Age	hrs	Client Info		<b>0</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed	Client Info			<b>N/A</b>	---	---
Sample Status				<b>SEVERE</b>	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	<b>5</b>	---	---
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	---	---
Nickel	ppm	ASTM D5185(m)	>20	<b>0</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Lead	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185(m)	>20	<b>6</b>	---	---
Tin	ppm	ASTM D5185(m)	>20	<b>0</b>	---	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	5	<b>&lt;1</b>	---	---
Barium	ppm	ASTM D5185(m)	5	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	5	<b>0</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m)	25	<b>6</b>	---	---
Calcium	ppm	ASTM D5185(m)	200	<b>182</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	300	<b>312</b>	---	---
Zinc	ppm	ASTM D5185(m)	370	<b>383</b>	---	---
Sulfur	ppm	ASTM D5185(m)	2500	<b>4115</b>	---	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<b>0</b>	---	---
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	---	---
Water	%	ASTM D6304*	>0.05	<b>0.002</b>	---	---
ppm Water	ppm	ASTM D6304*	>500	<b>19</b>	---	---

# OIL ANALYSIS REPORT



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : E30001898  
**Lab Number** : 02630225  
**Unique Number** : 5763357  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, VI )  
**Received** : 19 Apr 2024  
**Tested** : 23 Apr 2024  
**Diagnosed** : 24 Apr 2024 - Tatiana Sorkina

**Environmental 360 Solutions Ltd.**  
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 Cobourg, ON  
 CA K9A 5H5  
 Contact: Tatiana Sorkina  
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 T: (800)263-3939  
 F: (905)373-4950

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	▲ 42454	---	---
Particles >6µm	ASTM D7647	>640	▲ 3334	---	---
Particles >14µm	ASTM D7647	>160	35	---	---
Particles >21µm	ASTM D7647	>40	8	---	---
Particles >38µm	ASTM D7647	>10	2	---	---
Particles >71µm	ASTM D7647	>3	1	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16/14	▲ 23/19/12	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.31	---	---

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	88.1	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	11.2	11.0	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	97	110	---	---

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