



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area

**HER SON [CONHER]**

Machine Id

**Altarena - Baseline AKRON 15W40 CI-4**

Component

**New (Unused) Oil**

Fluid

**AKRON 15W40 CI-4 (--- GAL)**

## DIAGNOSIS

### Recommendation

This is a baseline read-out on the submitted sample. ( Customer Sample Comment: Fluid: AKRON 15W40 CI-4 )

### Contamination

There is a high amount of particulates present in the oil.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>KL0014584</b>	---	---
Sample Date	Client Info	<b>09 May 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>ABNORMAL</b>	---	---

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method	<b>NEG</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	<b>&lt;1</b>	---	---
Chromium	ppm ASTM D5185m	<b>&lt;1</b>	---	---
Nickel	ppm ASTM D5185m	<b>0</b>	---	---
Titanium	ppm ASTM D5185m	<b>&lt;1</b>	---	---
Silver	ppm ASTM D5185m	<b>&lt;1</b>	---	---
Aluminum	ppm ASTM D5185m	<b>&lt;1</b>	---	---
Lead	ppm ASTM D5185m	<b>&lt;1</b>	---	---
Copper	ppm ASTM D5185m	<b>0</b>	---	---
Tin	ppm ASTM D5185m	<b>0</b>	---	---
Vanadium	ppm ASTM D5185m	<b>&lt;1</b>	---	---
Cadmium	ppm ASTM D5185m	<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	<b>3</b>	---	---
Barium	ppm ASTM D5185m	<b>0</b>	---	---
Molybdenum	ppm ASTM D5185m	<b>45</b>	---	---
Manganese	ppm ASTM D5185m	<b>&lt;1</b>	---	---
Magnesium	ppm ASTM D5185m	<b>1226</b>	---	---
Calcium	ppm ASTM D5185m	<b>1340</b>	---	---
Phosphorus	ppm ASTM D5185m	<b>1110</b>	---	---
Zinc	ppm ASTM D5185m	<b>1406</b>	---	---
Sulfur	ppm ASTM D5185m	<b>5082</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	<b>5</b>	---	---
Sodium	ppm ASTM D5185m	<b>0</b>	---	---
Potassium	ppm ASTM D5185m >20	<b>&lt;1</b>	---	---

## FLUID CLEANLINESS

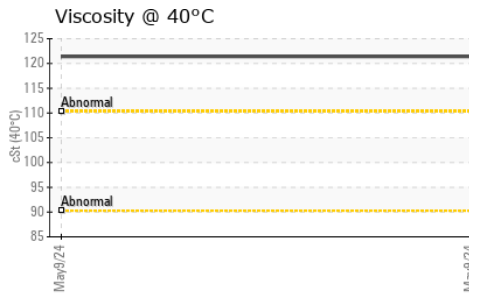
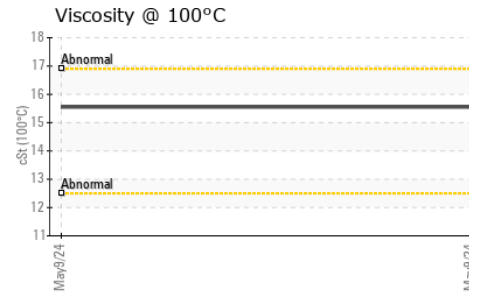
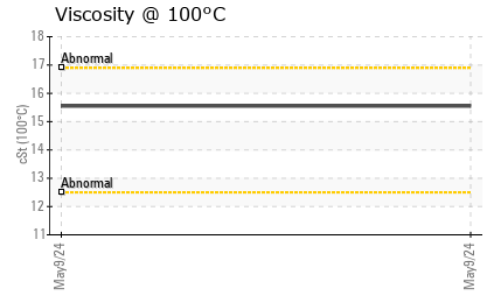
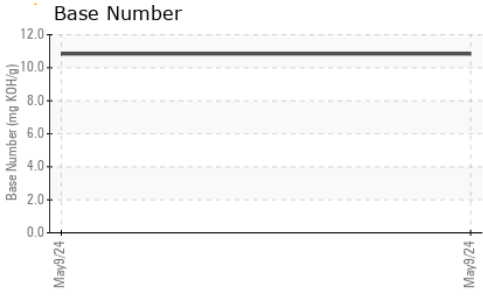
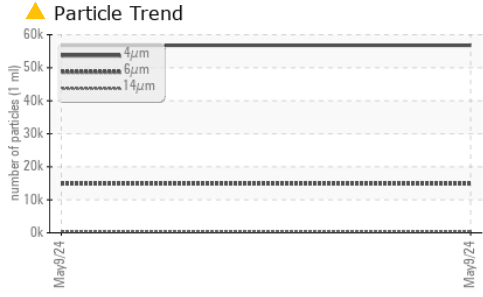
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>56773</b>	---	---
Particles >6µm	ASTM D7647 >1300	<b>▲ 14837</b>	---	---
Particles >14µm	ASTM D7647 >160	<b>▲ 435</b>	---	---
Particles >21µm	ASTM D7647 >40	<b>▲ 44</b>	---	---
Particles >38µm	ASTM D7647 >10	<b>0</b>	---	---
Particles >71µm	ASTM D7647 >3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c) >17/14	<b>▲ 21/16</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Base Number (BN)	mg KOH/g ASTM D2896	<b>10.84</b>	---	---



# OIL ANALYSIS REPORT

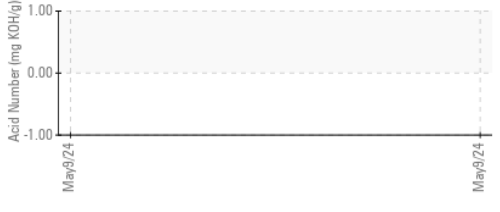
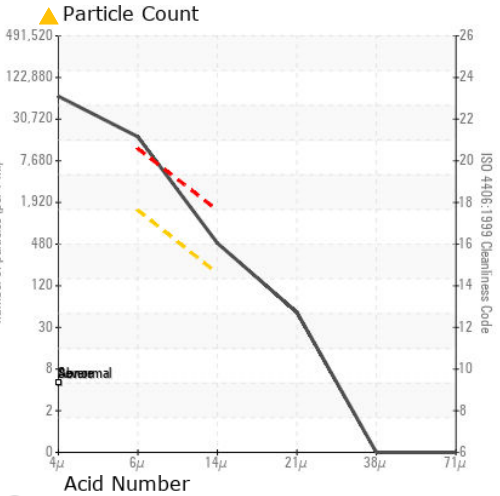
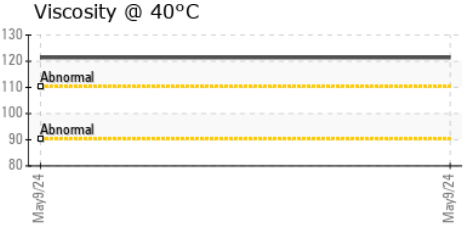
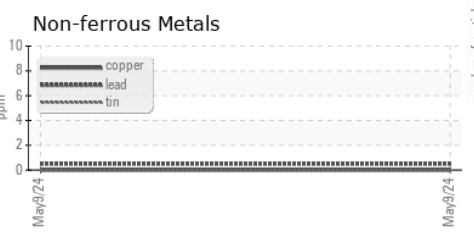
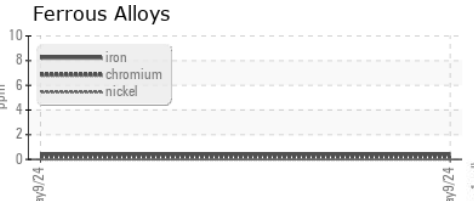


VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	LIGHT	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	NEG	---	---	
Free Water	scalar	*Visual	NEG	---	---	

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	121.4	---	---
Visc @ 100°C	cSt	ASTM D445	15.55	---	---
Viscosity Index (VI)	Scale	ASTM D2270	134	---	---

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0014584      **Received** : 20 May 2024  
**Lab Number** : 06184846      **Tested** : 23 May 2024  
**Unique Number** : 11036172      **Diagnosed** : 23 May 2024 - Jonathan Hester  
**Test Package** : MOB 2 ( Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TBN, VI)

**CONOR**  
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To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)