



# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

## C60X LUBE OIL FILTER CN3302

Component

Lube System

Fluid

MOBIL AERO HFA (--- GAL)

### DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. Please note that this is a corrected copy.

#### Wear

All component wear rates are normal.

#### Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. There is a moderate amount of visible silt present in the sample.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PH0002395	---	---
Sample Date	Client Info		24 Apr 2024	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ABNORMAL	---	---

### CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.05	NEG	---	---

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	---
Chromium	ppm	ASTM D5185m	>20	0	---
Nickel	ppm	ASTM D5185m	>20	0	---
Titanium	ppm	ASTM D5185m		0	---
Silver	ppm	ASTM D5185m		0	---
Aluminum	ppm	ASTM D5185m	>20	0	---
Lead	ppm	ASTM D5185m	>20	0	---
Copper	ppm	ASTM D5185m	>20	3	---
Tin	ppm	ASTM D5185m	>20	0	---
Vanadium	ppm	ASTM D5185m		0	---
Cadmium	ppm	ASTM D5185m		0	---

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	---
Barium	ppm	ASTM D5185m		<1	---
Molybdenum	ppm	ASTM D5185m		0	---
Manganese	ppm	ASTM D5185m		0	---
Magnesium	ppm	ASTM D5185m		<1	---
Calcium	ppm	ASTM D5185m		24	---
Phosphorus	ppm	ASTM D5185m		479	---
Zinc	ppm	ASTM D5185m		0	---
Sulfur	ppm	ASTM D5185m		264	---

### CONTAMINANTS

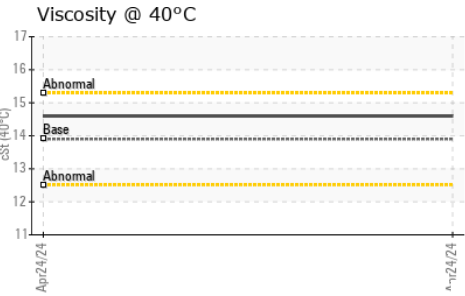
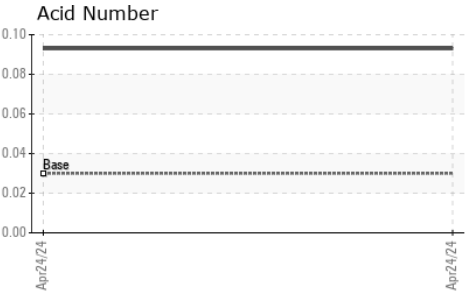
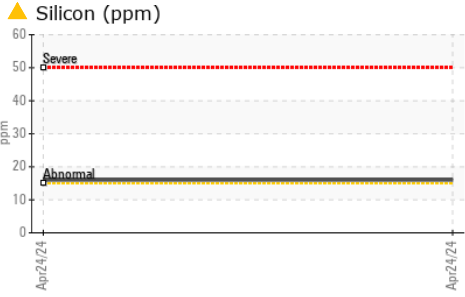
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	▲ 16	---
Sodium	ppm	ASTM D5185m		<1	---
Potassium	ppm	ASTM D5185m	>20	0	---

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.03	0.093	---



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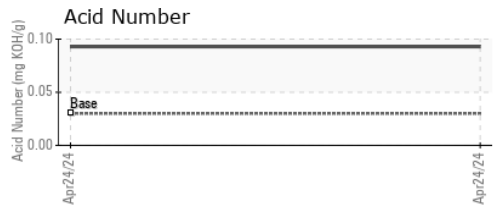
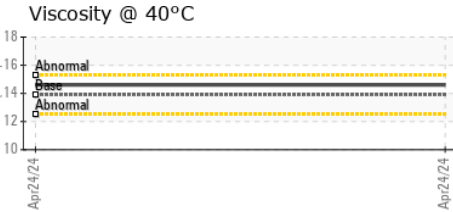
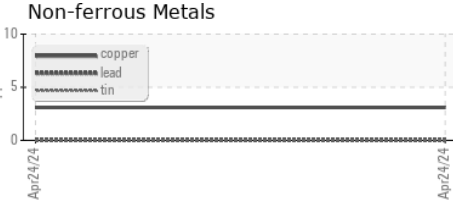
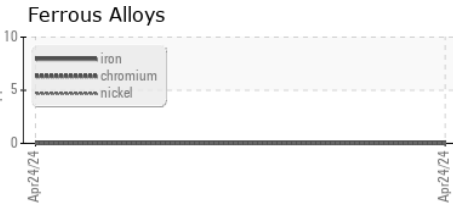
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	▲ MODER	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
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 D445	13.9	<b>14.6</b>	---	---

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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PH0002395  
**Lab Number** : **06160334**  
**Unique Number** : 10995757  
**Test Package** : PLANT

**Received** : 25 Apr 2024  
**Tested** : 21 May 2024  
**Diagnosed** : 21 May 2024 - Angela Borella

**PARKER HANNIFIN LABORATORY**  
 16810 FULTON COUNTY RD 2  
 METAMORA, OH  
 US 43540  
 Contact: KEITH LEMLE  
 klemle@parker.com

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)