

PROBLEM SUMMARY

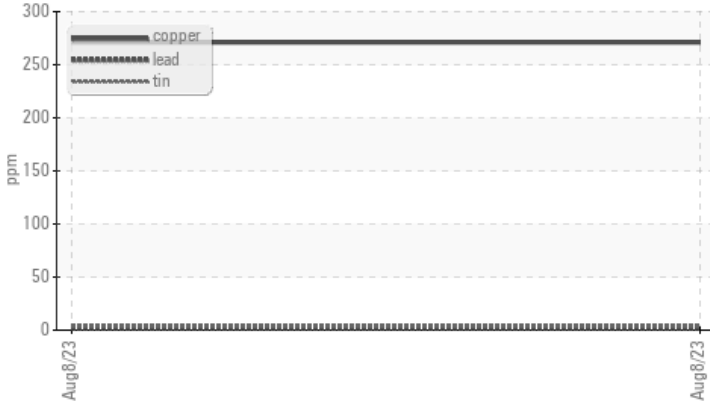
Area
(55219z) Walgreens
 Machine Id
[Walgreens] 136A63313
 Component
Diesel Engine
 Fluid
SAE 0W30 (11 GAL)

Sample Rating Trend

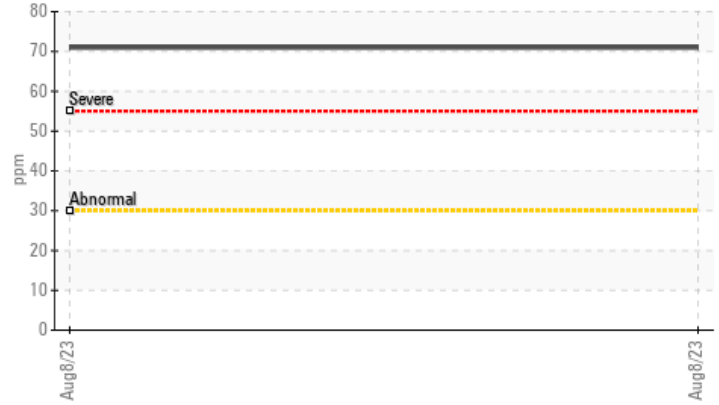


COMPONENT CONDITION SUMMARY

▲ Non-ferrous Metals



Aluminum (ppm)



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status	ABNORMAL	---	---			
Copper	ppm	ASTM D5185m	>150	▲ 271	---	---

Customer Id: TSV1369
 Sample No.: PCA0103550
 Lab Number: 05930260
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
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To change component or sample information:
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RECOMMENDED ACTIONS

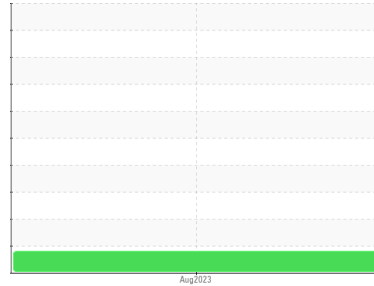
Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
(55219z) Walgreens
 Machine Id
[Walgreens] 136A63313
 Component
Diesel Engine
 Fluid
SAE 0W30 (11 GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core).

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0103550	---	---
Sample Date	Client Info	08 Aug 2023	---	---
Machine Age	hrs	Client Info	68489	---
Oil Age	hrs	Client Info	60000	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	---
Glycol	WC Method		NEG	---

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>80	74	---
Chromium	ppm	ASTM D5185m	>5	6	---
Nickel	ppm	ASTM D5185m	>2	<1	---
Titanium	ppm	ASTM D5185m		<1	---
Silver	ppm	ASTM D5185m	>3	0	---
Aluminum	ppm	ASTM D5185m	>30	71	---
Lead	ppm	ASTM D5185m	>30	2	---
Copper	ppm	ASTM D5185m	>150	▲ 271	---
Tin	ppm	ASTM D5185m	>5	4	---
Vanadium	ppm	ASTM D5185m		<1	---
Cadmium	ppm	ASTM D5185m		0	---

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		51	---
Barium	ppm	ASTM D5185m		0	---
Molybdenum	ppm	ASTM D5185m		58	---
Manganese	ppm	ASTM D5185m		5	---
Magnesium	ppm	ASTM D5185m		577	---
Calcium	ppm	ASTM D5185m		1825	---
Phosphorus	ppm	ASTM D5185m		757	---
Zinc	ppm	ASTM D5185m		942	---
Sulfur	ppm	ASTM D5185m		2376	---

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	8	---
Sodium	ppm	ASTM D5185m	>12	6	---
Potassium	ppm	ASTM D5185m	>20	184	---

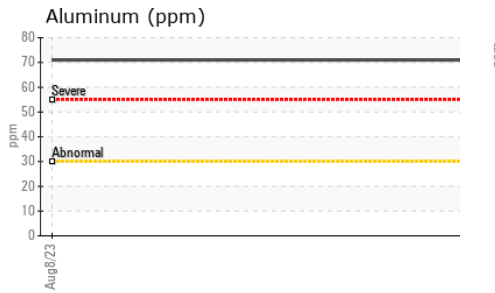
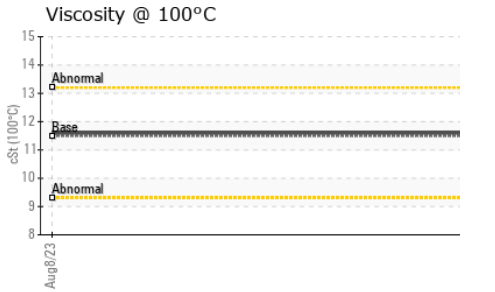
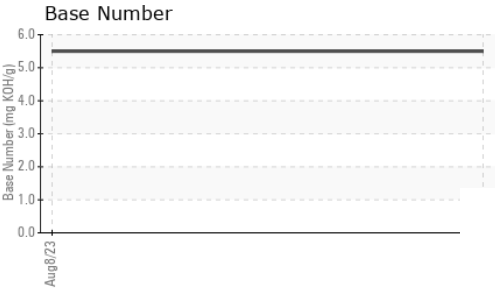
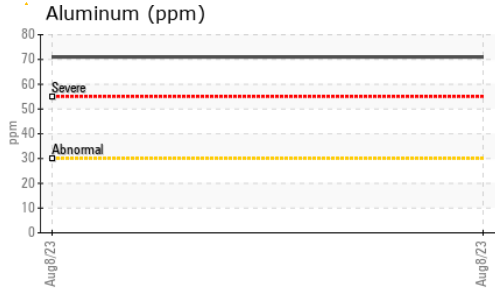
INFRA-RED

method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	1	---
Nitration	Abs/cm	*ASTM D7624	>20	13.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.3	---

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.9	---
Base Number (BN)	mg KOH/g	ASTM D2896		5.5	---

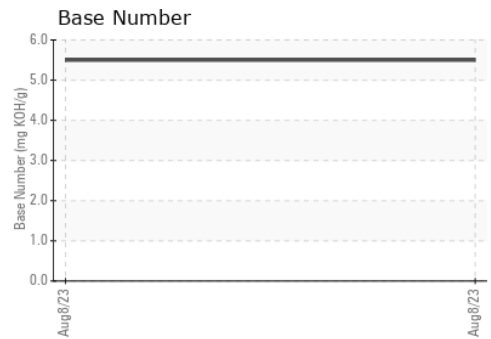
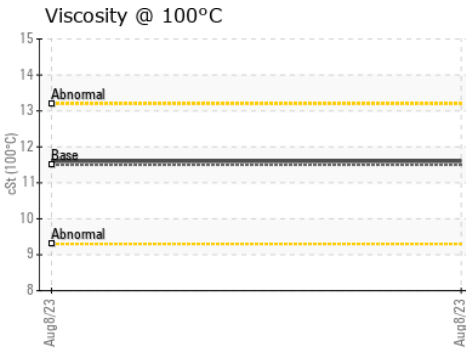
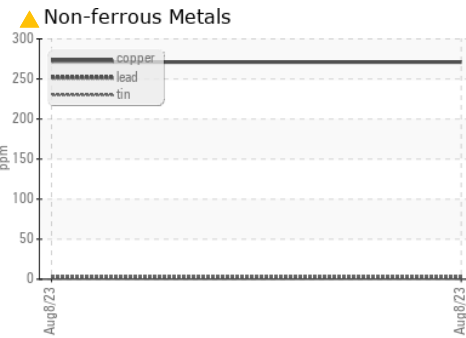
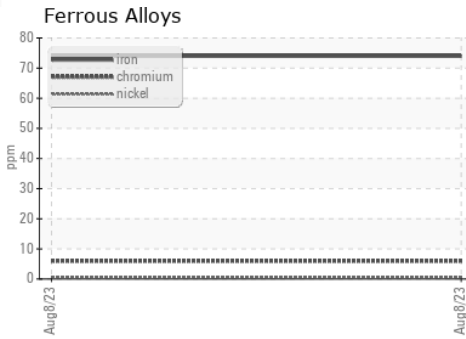
OIL ANALYSIS REPORT



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	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	11.5	11.6	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0103550 **Received** : 21 Aug 2023
Lab Number : 05930260 **Diagnosed** : 23 Aug 2023
Unique Number : 10615531 **Diagnostician** : Jonathan Hester
Test Package : FLEET

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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)