



Machine Id
26591
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0123492	PCA0068356	---
Sample Date		Client Info		03 Apr 2024	03 Nov 2023	---
Machine Age	mls	Client Info		0	710852	---
Oil Age	mls	Client Info		30000	30000	---
Filter Age	mls	Client Info		30000	30000	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

Cylinder, crank, or cam shaft wear is indicated. Valve wear is indicated.

Iron	ppm	ASTM D5185m	>100	▲ 112	36	---
Chromium	ppm	ASTM D5185m	>20	2	<1	---
Nickel	ppm	ASTM D5185m	>4	▲ 12	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	<1	<1	---
Aluminum	ppm	ASTM D5185m	>20	7	17	---
Lead	ppm	ASTM D5185m	>40	3	0	---
Copper	ppm	ASTM D5185m	>330	30	3	---
Tin	ppm	ASTM D5185m	>15	1	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

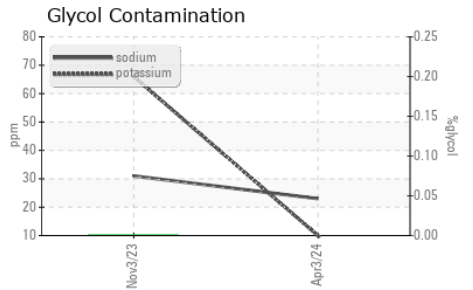
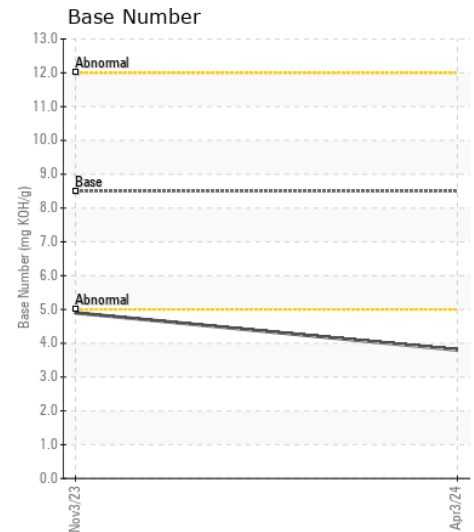
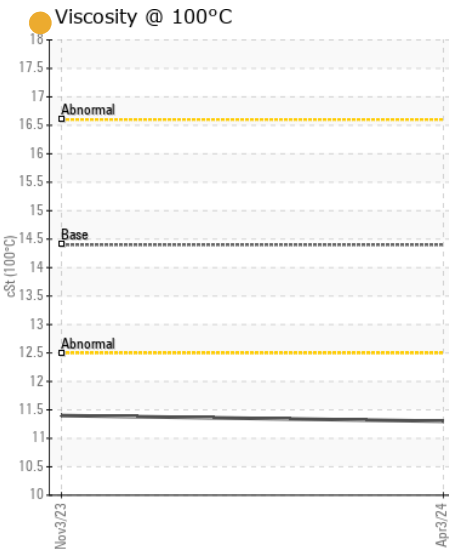
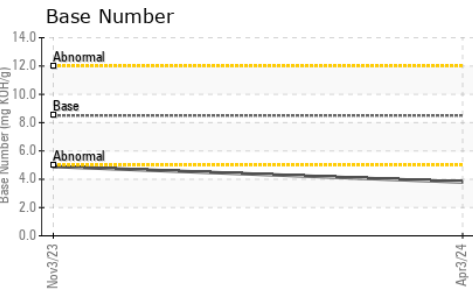
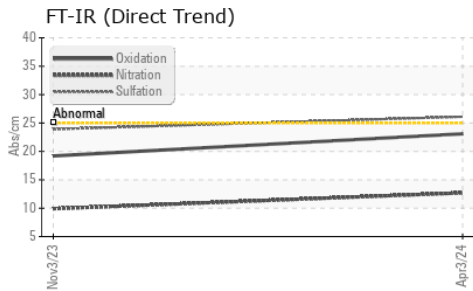
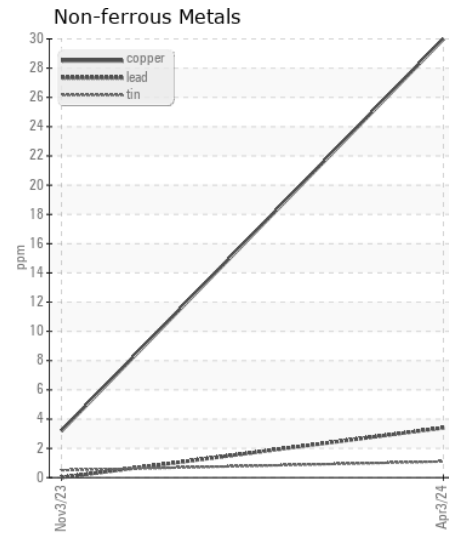
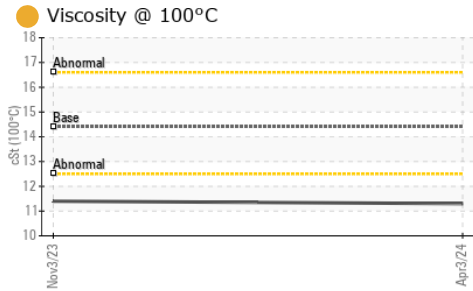
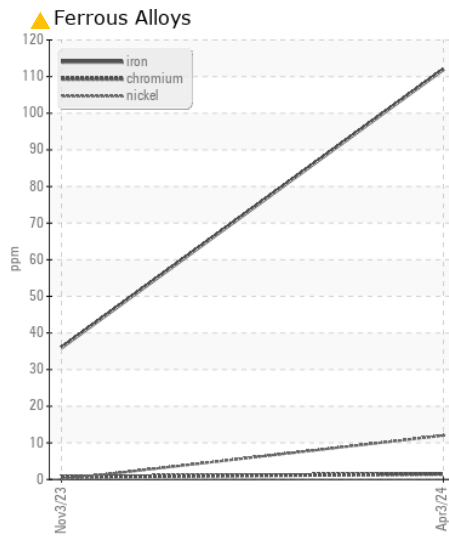
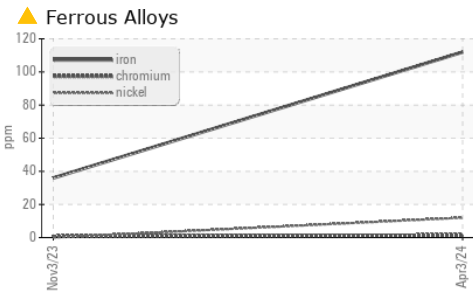
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	17	9	---
Potassium	ppm	ASTM D5185m	>20	10	▲ 66	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol	%	*ASTM D2982		NEG	0.0	---
Soot %	%	*ASTM D7844	>3	1.2	0.8	---
Nitration	Abs/cm	*ASTM D7624	>20	12.7	9.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.1	23.9	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m	>158	23	31	---
Boron	ppm	ASTM D5185m	250	1	0	---
Barium	ppm	ASTM D5185m	10	0	0	---
Molybdenum	ppm	ASTM D5185m	100	63	62	---
Manganese	ppm	ASTM D5185m		3	<1	---
Magnesium	ppm	ASTM D5185m	450	849	936	---
Calcium	ppm	ASTM D5185m	3000	1213	1071	---
Phosphorus	ppm	ASTM D5185m	1150	999	988	---
Zinc	ppm	ASTM D5185m	1350	1245	1227	---
Sulfur	ppm	ASTM D5185m	4250	2796	2487	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.1	19.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	3.8	4.9	---
Visc @ 100°C	cSt	ASTM D445	14.4	● 11.3	11.4	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0123492 **Received** : 10 Apr 2024
Lab Number : 06145213 **Tested** : 13 Apr 2024
Unique Number : 10970021 **Diagnosed** : 13 Apr 2024 - Don Baldrige
Test Package : FLEET (Additional Tests: Glycol)

PERDUE FARMS INC - GARAGE
 189 PERDUE WAY
 CANDOR, NC
 US 27229
 Contact: Service Manager

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)

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F: