



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

FLEET

Machine Id

Perdue farms. 2227073 (S/N N631485. 2227073)

Component

Bottom Diesel Engine

Fluid

DIESEL ENGINE OIL SAE 30 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0116223	PCA0108146	---
Sample Date		Client Info		08 Jan 2024	06 Nov 2023	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	ABNORMAL	---

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). All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	13	28	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>4	3	1	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>3	5	19	---
Aluminum	ppm	ASTM D5185m	>20	9	▲ 27	---
Lead	ppm	ASTM D5185m	>40	0	4	---
Copper	ppm	ASTM D5185m	>330	▲ 368	184	---
Tin	ppm	ASTM D5185m	>15	2	3	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

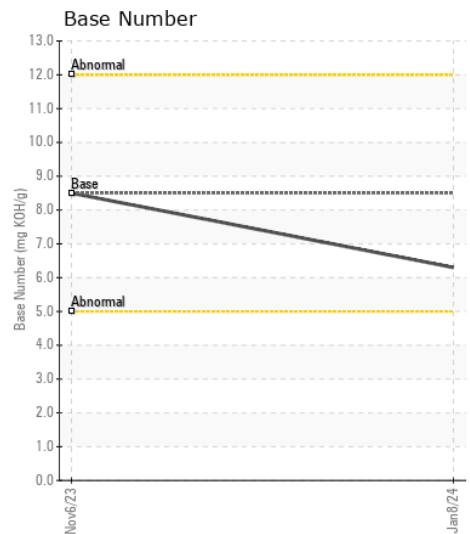
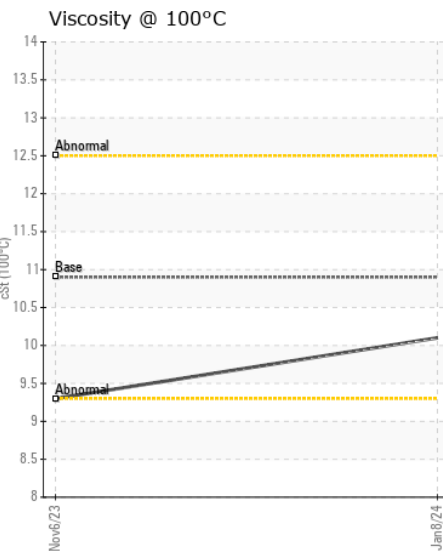
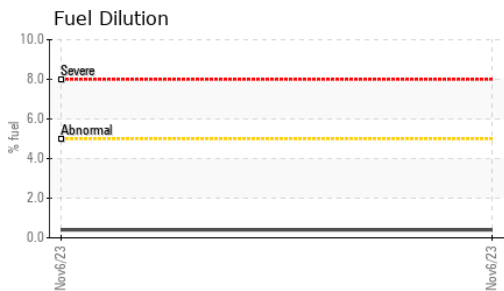
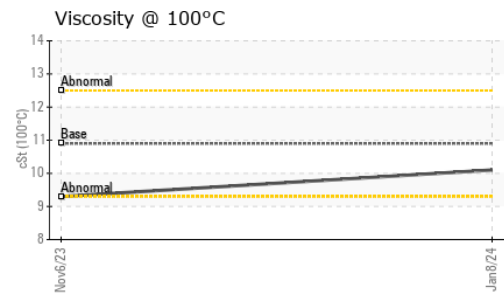
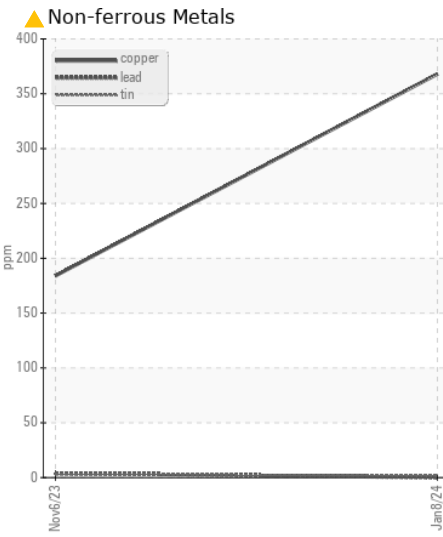
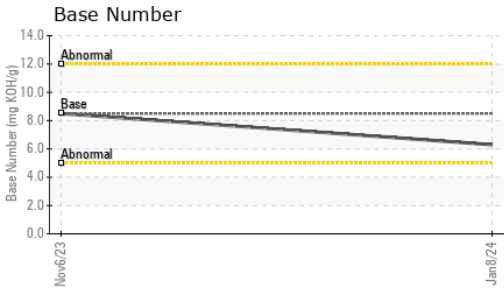
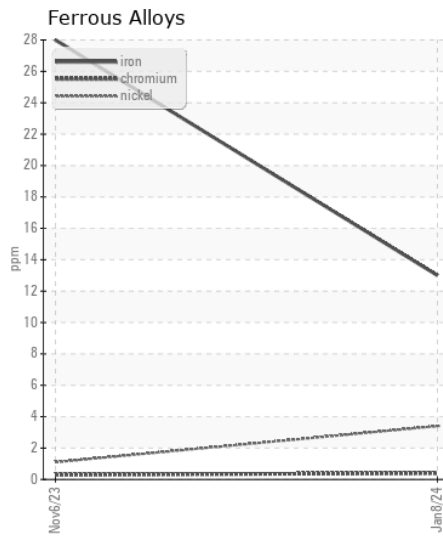
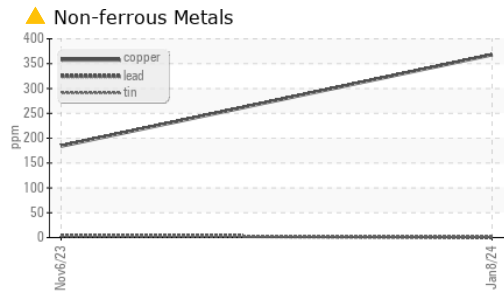
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	15	▲ 79	---
Potassium	ppm	ASTM D5185m	>20	18	80	---
Fuel	%	ASTM D3524	>5	<1.0	0.4	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	7.7	8.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	24.6	---
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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>75	0	4	---
Boron	ppm	ASTM D5185m	250	14	243	---
Barium	ppm	ASTM D5185m	10	0	<1	---
Molybdenum	ppm	ASTM D5185m	100	64	116	---
Manganese	ppm	ASTM D5185m		1	4	---
Magnesium	ppm	ASTM D5185m	450	873	706	---
Calcium	ppm	ASTM D5185m	3000	1054	1454	---
Phosphorus	ppm	ASTM D5185m	1150	919	706	---
Zinc	ppm	ASTM D5185m	1350	1150	840	---
Sulfur	ppm	ASTM D5185m	4250	2622	2377	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	21.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.3	8.5	---
Visc @ 100°C	cSt	ASTM D445	10.9	10.1	9.3	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0116223 **Received** : 11 Jan 2024
Lab Number : 06057917 **Diagnosed** : 12 Jan 2024
Unique Number : 10829299 **Diagnostician** : Don Baldrige
Test Package : FLEET (Additional Tests: FuelDilution)

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)

PERDUE FARMS - DILLON
 2047 HWY 9 WEST
 DILLON, SC
 US 29536

Contact: KEVIN HOOKS
 kevin.hooks@perdue.com
 T: (843)841-8069
 F: (843)841-8070