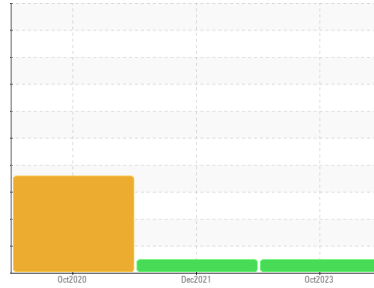


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
2026881
 Component
Diesel Engine
 Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

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 suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0108099	PCA0060718	PCA0030705
Sample Date	Client Info		24 Oct 2023	08 Dec 2021	27 Oct 2020
Machine Age	hrs	Client Info	132775	132775	0
Oil Age	hrs	Client Info	132775	132775	0
Oil Changed		Client Info	N/A	N/A	N/A
Sample Status			NORMAL	NORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	17	21	35
Chromium	ppm	ASTM D5185m >20	0	<1	<1
Nickel	ppm	ASTM D5185m >4	0	4	0
Titanium	ppm	ASTM D5185m	0	<1	<1
Silver	ppm	ASTM D5185m >3	0	1	1
Aluminum	ppm	ASTM D5185m >20	2	5	▲ 29
Lead	ppm	ASTM D5185m >40	<1	2	0
Copper	ppm	ASTM D5185m >330	3	38	17
Tin	ppm	ASTM D5185m >15	<1	2	<1
Antimony	ppm	ASTM D5185m	---	0	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	4	34
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	58	61	38
Manganese	ppm	ASTM D5185m	<1	<1	3
Magnesium	ppm	ASTM D5185m	902	916	471
Calcium	ppm	ASTM D5185m	994	1139	1594
Phosphorus	ppm	ASTM D5185m	930	954	843
Zinc	ppm	ASTM D5185m	1215	1198	1012
Sulfur	ppm	ASTM D5185m	2845	2477	2234

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	4	5	▲ 26
Sodium	ppm	ASTM D5185m	<1	2	6
Potassium	ppm	ASTM D5185m >20	0	6	▲ 60
Fuel	%	ASTM D3524 >5	<1.0	<1.0	0.2

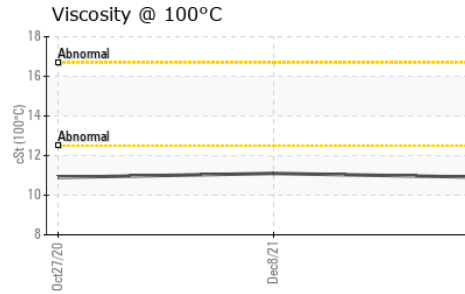
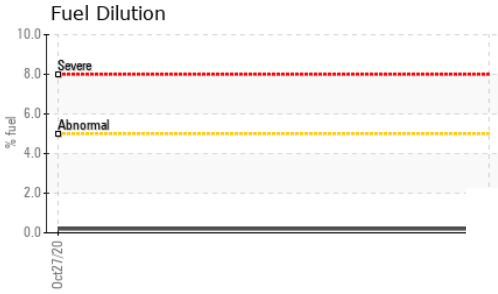
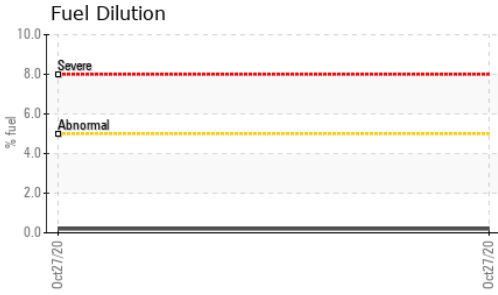
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.4	0.4	0.2
Nitration	Abs/cm	*ASTM D7624 >20	9.3	8.9	7.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.7	20.1	23.8

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	15.6	16.2	21.2
Base Number (BN)	mg KOH/g	ASTM D2896	7.0	7	10.6

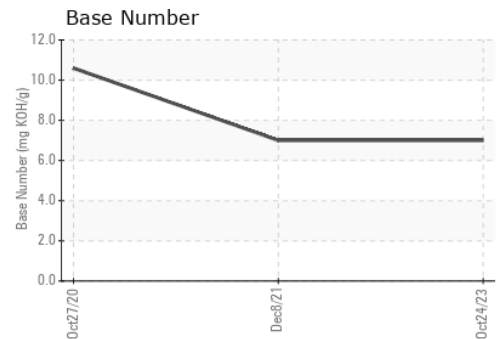
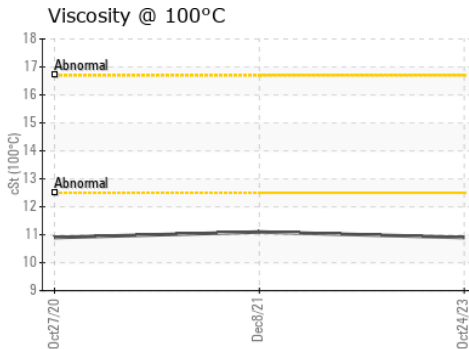
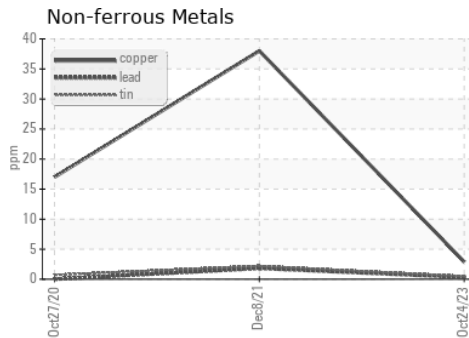
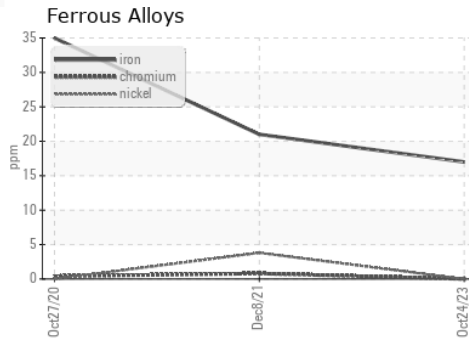
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	10.9	11.1	10.9

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0108099 **Received** : 08 Nov 2023
Lab Number : **06001395** **Diagnosed** : 09 Nov 2023
Unique Number : 10729755 **Diagnostician** : Sean Felton
Test Package : FLEET (Additional Tests: FuelDilution)

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

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)