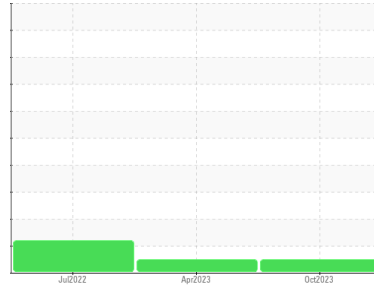


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**FLEET**  
 Machine Id  
**7941 (S/N 0000000000000000)**  
 Component  
**1 Diesel Engine**  
 Fluid  
**NOT GIVEN (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### 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	<b>PCA0108150</b>	PCA0096527	PCA0077086
Sample Date	Client Info	<b>22 Oct 2023</b>	26 Apr 2023	04 Jul 2022
Machine Age	hrs Client Info	<b>0</b>	0	0
Oil Age	hrs Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	ABNORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >120	<b>20</b>	33	42
Chromium	ppm ASTM D5185m >20	<b>&lt;1</b>	<1	1
Nickel	ppm ASTM D5185m >5	<b>&lt;1</b>	2	4
Titanium	ppm ASTM D5185m >2	<b>0</b>	0	<1
Silver	ppm ASTM D5185m >2	<b>0</b>	0	<1
Aluminum	ppm ASTM D5185m >20	<b>3</b>	5	7
Lead	ppm ASTM D5185m >40	<b>&lt;1</b>	<1	2
Copper	ppm ASTM D5185m >330	<b>&lt;1</b>	5	7
Tin	ppm ASTM D5185m >15	<b>&lt;1</b>	<1	1
Vanadium	ppm ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	<b>3</b>	3	6
Barium	ppm ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m	<b>57</b>	60	64
Manganese	ppm ASTM D5185m	<b>0</b>	<1	<1
Magnesium	ppm ASTM D5185m	<b>849</b>	928	932
Calcium	ppm ASTM D5185m	<b>963</b>	1061	1123
Phosphorus	ppm ASTM D5185m	<b>884</b>	980	1030
Zinc	ppm ASTM D5185m	<b>1158</b>	1215	1238
Sulfur	ppm ASTM D5185m	<b>2374</b>	2791	2980

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<b>6</b>	6	7
Sodium	ppm ASTM D5185m	<b>21</b>	17	12
Potassium	ppm ASTM D5185m >20	<b>&lt;1</b>	3	2
Fuel	% ASTM D3524 >3.0	<b>&lt;1.0</b>	<1.0	2.0

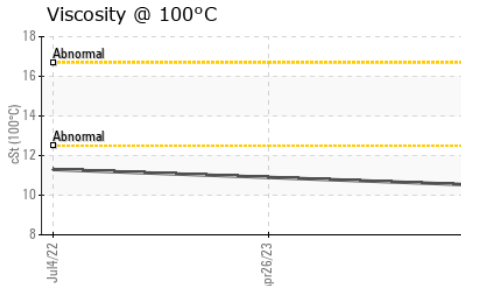
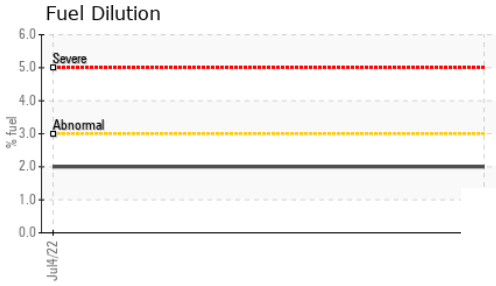
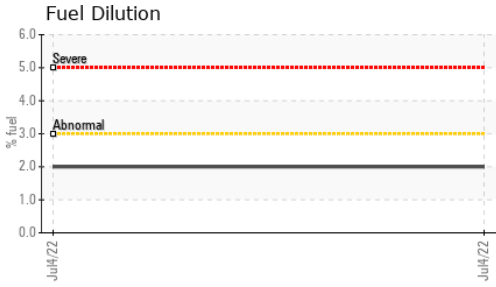
## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >4	<b>0.3</b>	0.4	0.6
Nitration	Abs/cm *ASTM D7624 >20	<b>11.2</b>	14.2	15.5
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>23.7</b>	25.3	28.6

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>22.5</b>	26.3	29.1
Base Number (BN)	mg KOH/g ASTM D2896	<b>4.0</b>	3.7	▲ 3.7

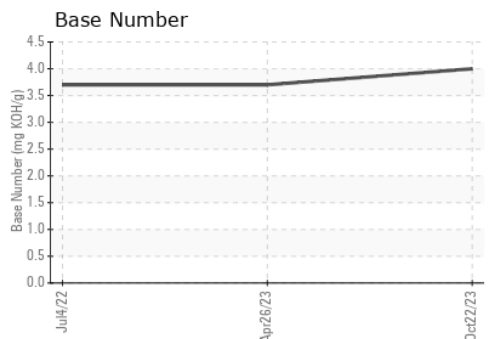
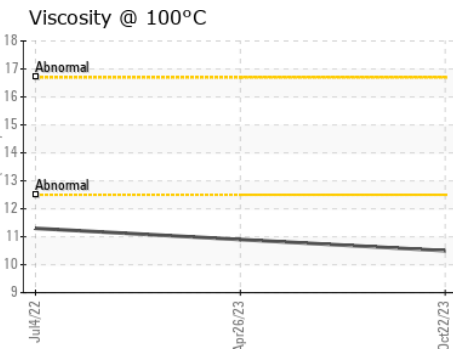
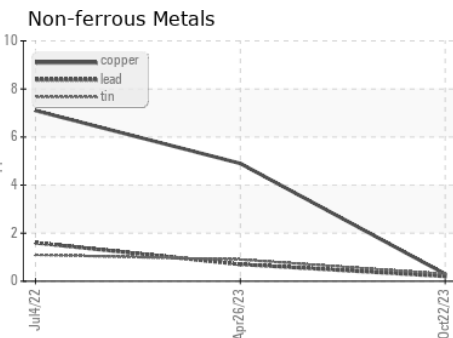
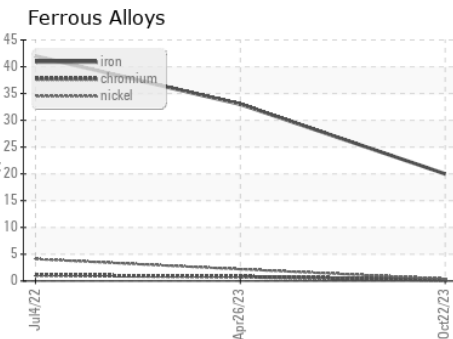
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
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	<b>10.5</b>	10.9	11.3

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0108150 **Received** : 08 Nov 2023  
**Lab Number** : **06001397** **Diagnosed** : 09 Nov 2023  
**Unique Number** : 10729757 **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

Certificate L2367  
 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)