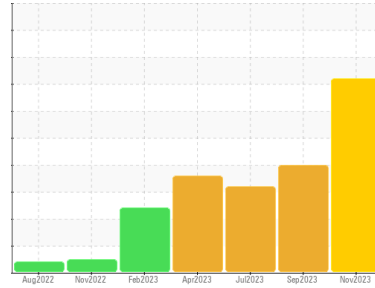


Machine Id
2126944
 Component
Rear Differential
 Fluid
GEAR OIL SAE 75W90 (--- QTS)



DIAGNOSIS

Recommendation
 We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition.

Wear
 Gear wear is indicated.

Contamination
 Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a high amount of visible silt present in the sample. There is a light concentration of water present in the oil.

Fluid Condition
 The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	PCA0113246	PCA0106123	PCA0101688	
Sample Date	Client Info	27 Nov 2023	11 Sep 2023	03 Jul 2023	
Machine Age	mls	Client Info	153425	132152	113706
Oil Age	mls	Client Info	153425	132152	113706
Oil Changed	Client Info	Not Chngd	Not Chngd	Not Chngd	
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL	

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >500	▲ 1469	▲ 1046	▲ 949
Chromium ppm	ASTM D5185m >10	▲ 13	9	9
Nickel ppm	ASTM D5185m >10	▲ 60	▲ 51	▲ 51
Titanium ppm	ASTM D5185m	3	1	2
Silver ppm	ASTM D5185m	0	0	0
Aluminum ppm	ASTM D5185m >25	▲ 26	▲ 17	15
Lead ppm	ASTM D5185m >25	<1	1	<1
Copper ppm	ASTM D5185m >100	31	21	16
Tin ppm	ASTM D5185m >10	<1	2	2
Vanadium ppm	ASTM D5185m	<1	<1	0
Cadmium ppm	ASTM D5185m	<1	0	<1

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m 400	37	50	54
Barium ppm	ASTM D5185m 200	0	0	0
Molybdenum ppm	ASTM D5185m 12	1	<1	<1
Manganese ppm	ASTM D5185m	32	26	29
Magnesium ppm	ASTM D5185m 12	9	0	3
Calcium ppm	ASTM D5185m 150	58	35	38
Phosphorus ppm	ASTM D5185m 1650	1031	1082	1132
Zinc ppm	ASTM D5185m 125	48	35	58
Sulfur ppm	ASTM D5185m 22500	26399	24779	28289

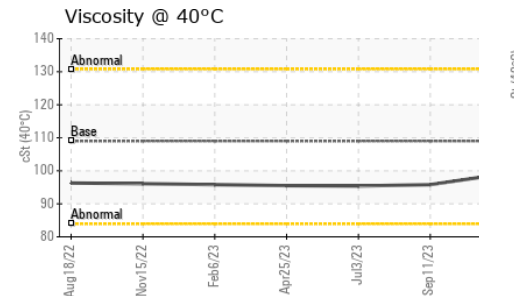
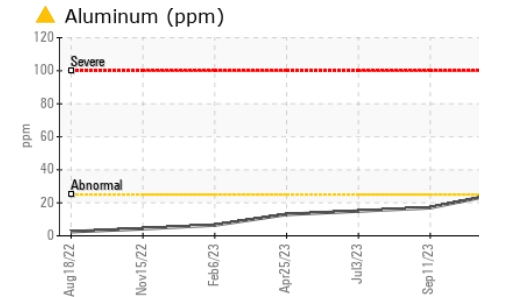
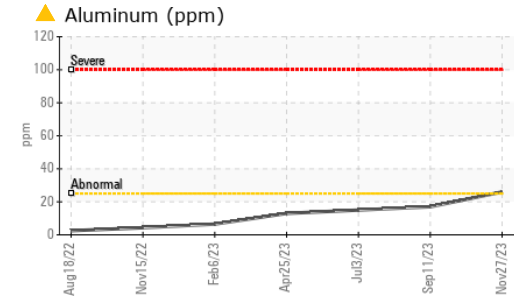
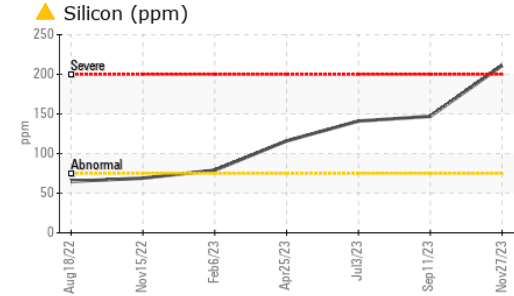
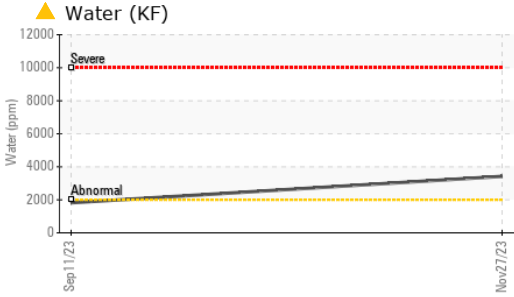
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >75	▲ 211	▲ 147	▲ 141
Sodium ppm	ASTM D5185m	9	10	13
Potassium ppm	ASTM D5185m >20	11	6	8
Water %	ASTM D6304 >.2	▲ 0.342	0.182	---
ppm Water	ASTM D6304 >2000	▲ 3420	1820	---

VISUAL

method	limit/base	current	history1	history2
White Metal scalar	*Visual NONE	NONE	NONE	NONE
Yellow Metal scalar	*Visual NONE	NONE	NONE	NONE
Precipitate scalar	*Visual NONE	NONE	NONE	NONE
Silt scalar	*Visual NONE	▲ HEAVY	NONE	MODER
Debris scalar	*Visual NONE	NONE	NONE	NONE
Sand/Dirt scalar	*Visual NONE	NONE	NONE	NONE
Appearance scalar	*Visual NORML	NORML	NORML	NORML
Odor scalar	*Visual NORML	NORML	NORML	NORML
Emulsified Water scalar	*Visual >.2	0.2%	0.2%	NEG
Free Water scalar	*Visual	NEG	NEG	NEG

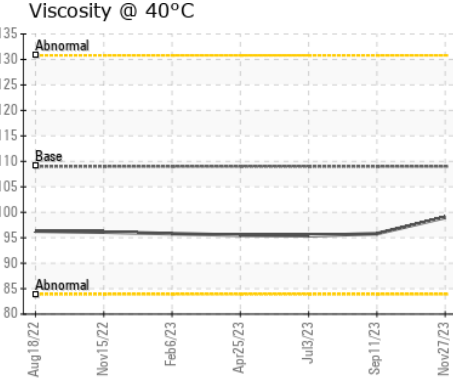
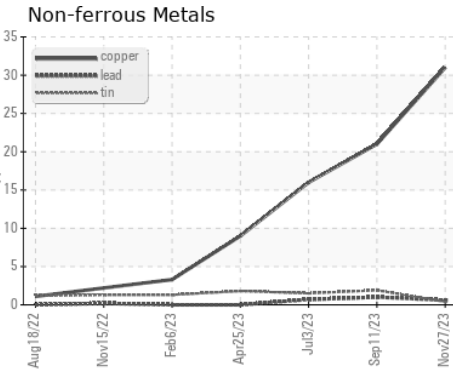
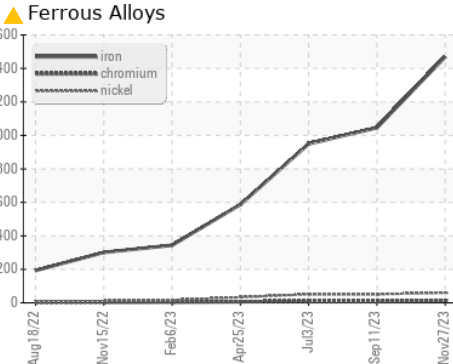
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	109	99.0	95.8	95.4

SAMPLE IMAGES	method	limit/base	current	history1	history2	
Color				no image	no image	no image
Bottom				no image	no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0113246 **Recieved** : 15 Dec 2023
Lab Number : **06037105** **Diagnosed** : 20 Dec 2023
Unique Number : 10792334 **Diagnostician** : Jonathan Hester
Test Package : FLEET (Additional Tests: KF)

PERDUE FARMS - GEORGETOWN
 20621 SAVANAH RD
 GEORGETOWN, DE
 US 19947
 Contact: ROBERT LOCKWOOD
 Robert.Lockwood@Perdue.com
 T:
 F:

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)