PROBLEM SUMMARY

Sample Rating Trend
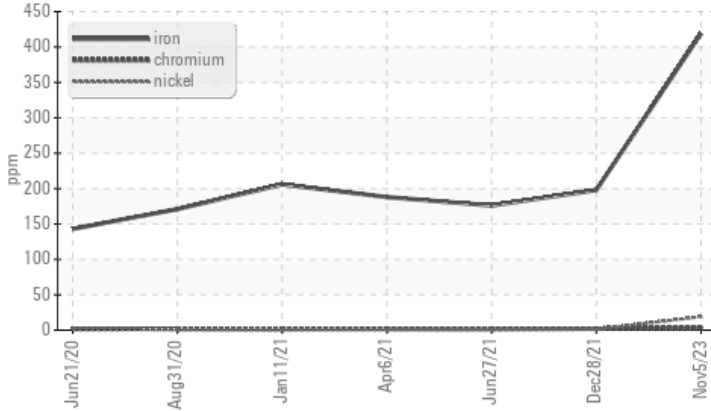

Jun2020 Aug2020 Jan2021 Apr2021 Jun2021 Dec2021 Nov2023
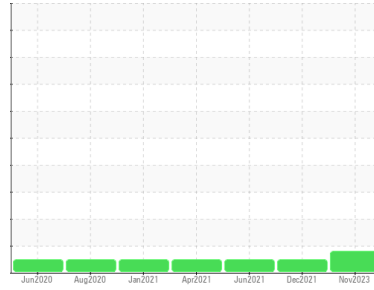
WEAR

Machine Id
26345
Component
2 Differential
Fluid
GEAR OIL SAE 75W90 (23 QTS)

COMPONENT CONDITION SUMMARY

⚠ Ferrous Alloys

Legend: iron, chromium, nickel

RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status					**ABNORMAL**	NORMAL	NORMAL
Nickel	ppm	ASTM D5185m	>10		⚠ 19	1	<1

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

28 Dec 2021 Diag: Don Baldridge

view report

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

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27 Jun 2021 Diag: Wes Davis

view report

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

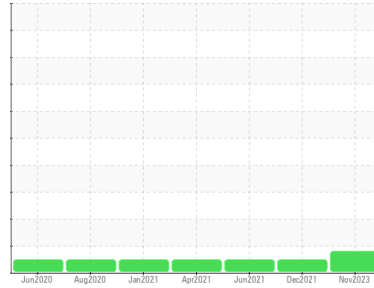**06 Apr 2021 Diag: Wes Davis**

view report

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

OIL ANALYSIS REPORT

360 TECHNICAL EXPERTISE | OIL DIAGNOSTICS

WEAR

Machine Id
26345
Component
2 Differential
Fluid
GEAR OIL SAE 75W90 (23 QTS)

DIAGNOSIS

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

▲ Wear
The nickel level is abnormal. All other component wear rates are normal.

Contamination
There is no indication of any contamination 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		**PCA0110952**	PCA0065063	PCA0053467
Sample Date	Client Info		**05 Nov 2023**	28 Dec 2021	27 Jun 2021
Machine Age	mls Client Info		**486087**	647007	579261
Oil Age	mls Client Info		**486087**	647007	579261
Oil Changed	Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status			**ABNORMAL**	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>.2	**NEG**	NEG	NEG

WEAR METALS

		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	**419**	198	176
Chromium	ppm	ASTM D5185m	>10	**3**	2	2
Nickel	ppm	ASTM D5185m	>10	▲ **19**	1	<1
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**2**	3	2
Lead	ppm	ASTM D5185m	>25	**0**	<1	<1
Copper	ppm	ASTM D5185m	>100	**6**	2	6
Tin	ppm	ASTM D5185m	>10	**0**	<1	<1
Antimony	ppm	ASTM D5185m	>5	**---**	<1	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	400	**211**	293	407
Barium	ppm	ASTM D5185m	200	**0**	0	0
Molybdenum	ppm	ASTM D5185m	12	**0**	<1	0
Manganese	ppm	ASTM D5185m		**15**	7	6
Magnesium	ppm	ASTM D5185m	12	**0**	<1	0
Calcium	ppm	ASTM D5185m	150	**9**	9	7
Phosphorus	ppm	ASTM D5185m	1650	**1420**	1450	1408
Zinc	ppm	ASTM D5185m	125	**17**	13	12
Sulfur	ppm	ASTM D5185m	22500	**22778**	20956	22325

CONTAMINANTS

		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	**46**	24	24
Sodium	ppm	ASTM D5185m		**25**	4	4
Potassium	ppm	ASTM D5185m	>20	**4**	6	4

VISUAL

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

OIL DIAGNOSTICS
360 TECHNICAL EXPERTISE

Ferrous Alloys

iron
chromium
nickel
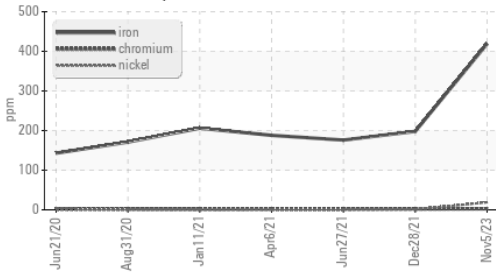
Viscosity @ 40°C
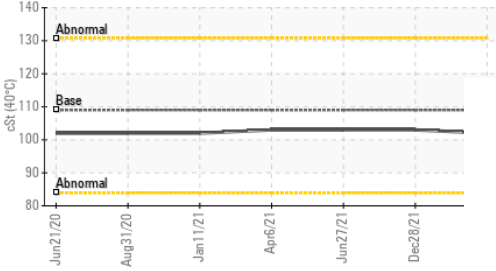
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	109	**102**	103	103

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

GRAPHS

Ferrous Alloys

iron
chromium
nickel

Non-ferrous Metals

copper
lead
tin

Viscosity @ 40°C
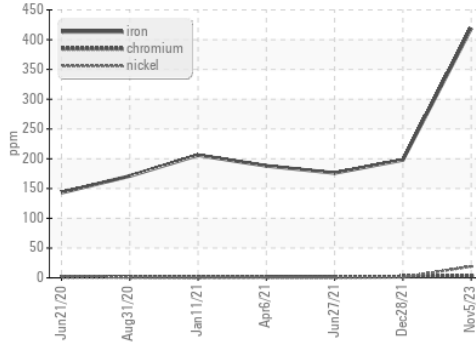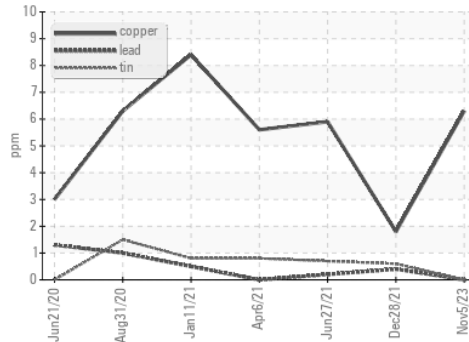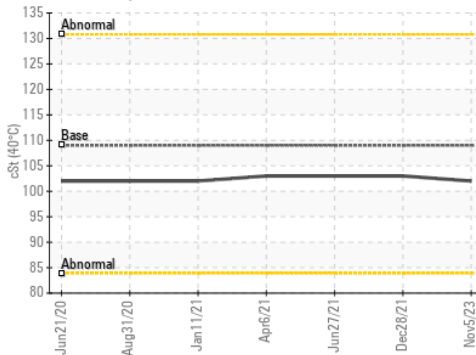
ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: PCA0110952	**Recieved**	: 15 Dec 2023
Lab Number	: 06036371	**Diagnosed**	: 19 Dec 2023
Unique Number	: 10791600	**Diagnostician**	: Don Baldridge
Test Package	: FLEET		

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)