OIL DIAGNOSTICS

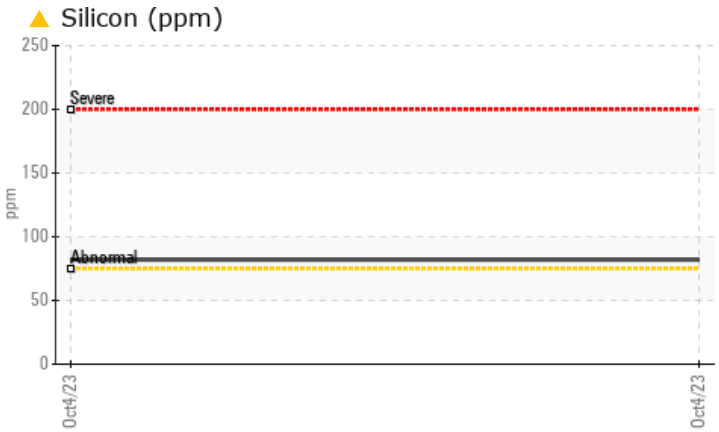
PROBLEM SUMMARY

Sample Rating Trend

DIRT

Machine Id
VOLVO 1926753 (S/N 4v4nc9eh4ln254788)
Component
Front Differential
Fluid
GEAR OIL SAE 75W90 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	---	---
Silicon	ppm	ASTM D5185m	>75	▲ **82**	---	---

Customer Id: PERPRIPCA
Sample No.: PCA0104838
Lab Number: 05977416
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

OIL DIAGNOSTICS

OIL ANALYSIS REPORT

Sample Rating Trend

DIRT

Machine Id
VOLVO 1926753 (S/N 4v4nc9eh4ln254788)
Component
Front Differential
Fluid
GEAR OIL SAE 75W90 (--- GAL)

DIAGNOSIS

▲ Recommendation

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

Wear

All component wear rates are normal.

▲ Contamination

Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material.

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		**PCA0104838**	---	---
Sample Date		Client Info		**04 Oct 2023**	---	---
Machine Age	hrs	Client Info		**0**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**ABNORMAL**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	**272**	---	---
Chromium	ppm	ASTM D5185m	>10	**2**	---	---
Nickel	ppm	ASTM D5185m	>10	**8**	---	---
Titanium	ppm	ASTM D5185m		**<1**	---	---
Silver	ppm	ASTM D5185m		**0**	---	---
Aluminum	ppm	ASTM D5185m	>25	**1**	---	---
Lead	ppm	ASTM D5185m	>25	**3**	---	---
Copper	ppm	ASTM D5185m	>100	**53**	---	---
Tin	ppm	ASTM D5185m	>10	**3**	---	---
Vanadium	ppm	ASTM D5185m		**0**	---	---
Cadmium	ppm	ASTM D5185m		**0**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	**137**	---	---
Barium	ppm	ASTM D5185m	200	**2**	---	---
Molybdenum	ppm	ASTM D5185m	12	**<1**	---	---
Manganese	ppm	ASTM D5185m		**11**	---	---
Magnesium	ppm	ASTM D5185m	12	**1**	---	---
Calcium	ppm	ASTM D5185m	150	**13**	---	---
Phosphorus	ppm	ASTM D5185m	1650	**1226**	---	---
Zinc	ppm	ASTM D5185m	125	**21**	---	---
Sulfur	ppm	ASTM D5185m	22500	**21428**	---	---

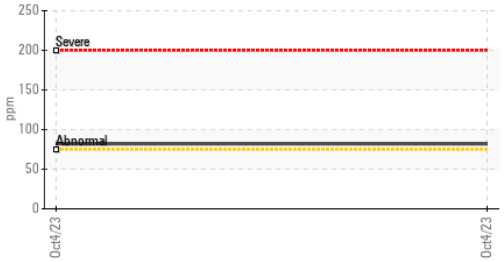
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ **82**	---	---
Sodium	ppm	ASTM D5185m		**9**	---	---
Potassium	ppm	ASTM D5185m	>20	**1**	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**LIGHT**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	---	---
Appearance	scalar	*Visual	NORML	**NORML**	---	---
Odor	scalar	*Visual	NORML	**NORML**	---	---
Emulsified Water	scalar	*Visual	>.2	**NEG**	---	---
Free Water	scalar	*Visual		**NEG**	---	---

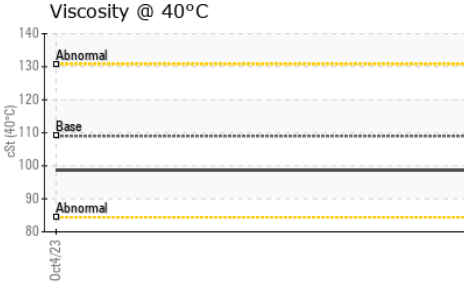
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	109	**98.7**	---	---

OIL ANALYSIS REPORT

Silicon (ppm)



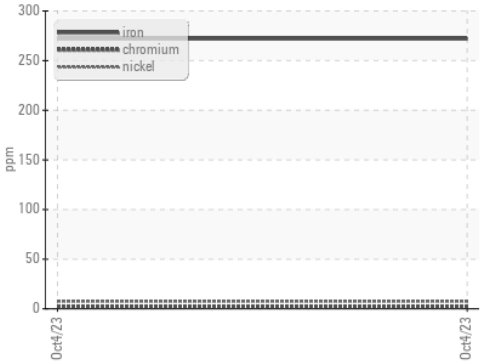
Viscosity @ 40°C



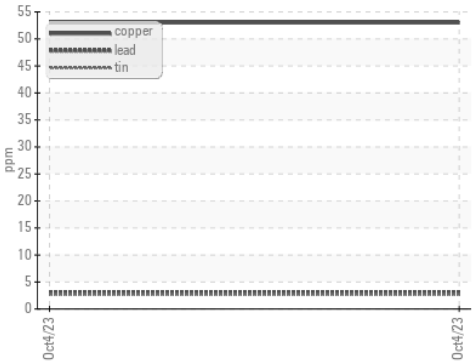
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS

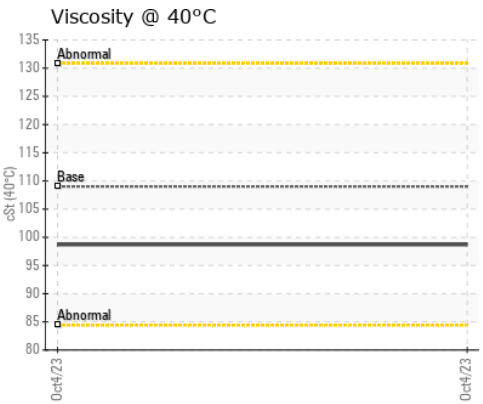
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0104838
Lab Number : 05977416
Unique Number : 10689366
Test Package : FLEET

Received : 12 Oct 2023
Diagnosed : 16 Oct 2023
Diagnostician : Don Baldridge

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 - PRINCE GEORGE
6012 HARDWARE DR
PRINCE GEORGE, VA
US 23875
Contact: MICHAEL DAVIS
MICHAELP.DAVIS@PERDUE.COM
T:
F: