

OIL ANALYSIS REPORT

Sample Rating Trend

Sample nating french





Machine Id **2126944**

Component

Rear Differential

GEAR OIL SAE 75W90 (--- QTS)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. 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 moderate concentration of water present in the oil.

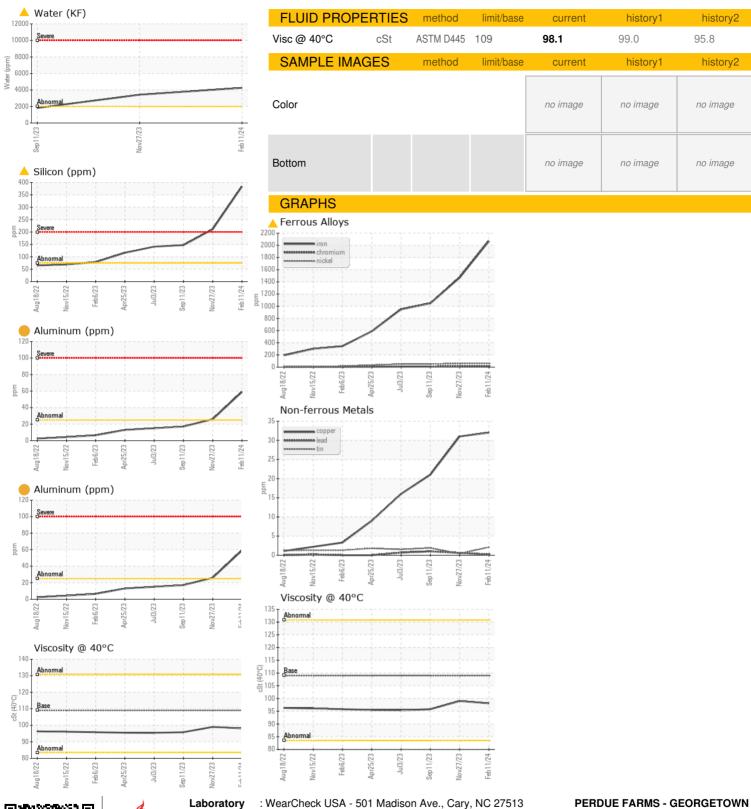
Fluid Condition

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

		Aug2022	lov2022 Feb2023 Apr20	23 Jul2023 Sep2023 Nov2023	Feb2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0114772	PCA0113246	PCA0106123
Sample Date		Client Info		11 Feb 2024	27 Nov 2023	11 Sep 2023
Machine Age	mls	Client Info		176450	153425	132152
Oil Age	mls	Client Info		176450	153425	132152
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	2067	<u> </u>	<u></u> 1046
Chromium	ppm	ASTM D5185m	>10	<u> </u>	<u></u> 13	9
Nickel	ppm	ASTM D5185m	>10	△ 62	6 0	<u></u> 51
Titanium	ppm	ASTM D5185m		5	3	1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	59	2 6	1 7
Lead	ppm	ASTM D5185m	>25	<1	<1	1
Copper	ppm	ASTM D5185m	>100	32	31	21
Tin	ppm	ASTM D5185m	>100	2	<1	2
Vanadium	ppm	ASTM D5185m		- <1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	<1	0
	РРП		Proceeds the control			
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	23	37	50
Barium	ppm	ASTM D5185m	200	0	0	0
Molybdenum	ppm	ASTM D5185m	12	<1	1	<1
Manganese	ppm	ASTM D5185m		36	32	26
Magnesium	ppm	ASTM D5185m	12	6	9	0
Calcium	ppm	ASTM D5185m	150	105	58	35
Phosphorus	ppm	ASTM D5185m	1650	927	1031	1082
Zinc	ppm	ASTM D5185m	125	52	48	35
Sulfur	ppm	ASTM D5185m	22500	25218	26399	24779
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ 384	<u>^</u> 211	<u>▲</u> 147
Sodium	ppm	ASTM D5185m		18	9	10
Potassium	ppm	ASTM D5185m	>20	13	11	6
Water	%	ASTM D6304	>.2	0.426	△ 0.342	0.182
ppm Water	ppm	ASTM D6304	>2000	4260	△ 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	NONE	▲ HEAVY	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	▲ 0.2%	0.2%	0.2%
Free Water	scalar	*Visual	· ·-	NEG	NEG	NEG
1 100 VValGI	Juaiai	vioual		IILG	INLU	INLU



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number : 06118642 Unique Number : 10927475

: PCA0114772

Received **Tested** Diagnosed Test Package: FLEET (Additional Tests: KF)

: 14 Mar 2024 : 18 Mar 2024 : 18 Mar 2024 - Don Baldridge 20621 SAVANAH RD GEORGETOWN, DE

US 19947

Contact: ROBERT LOCKWOOD Robert.Lockwood@Perdue.com

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)

T: F: