



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
Volvo Vnr 26665 (S/N 4V4WC9EH0RN218552)
 Component
Rear Differential
 Fluid
PETRO CANADA TRAXON SYNTHETIC 75W90 (--- QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0105537	PCA0095522	PCA0085284
Sample Date		Client Info		17 Jan 2024	30 Mar 2023	04 Jan 2023
Machine Age	mls	Client Info		474620	438672	414887
Oil Age	mls	Client Info		474620	438672	414887
Filter Age	mls	Client Info		0	0	398428
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	▲ 987	▲ 546	249
Chromium	ppm	ASTM D5185m	>10	8	5	3
Nickel	ppm	ASTM D5185m	>10	▲ 47	▲ 31	15
Titanium	ppm	ASTM D5185m		2	2	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	● 34	24	10
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m	>100	7	4	2
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

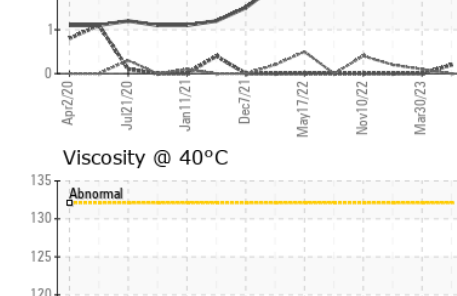
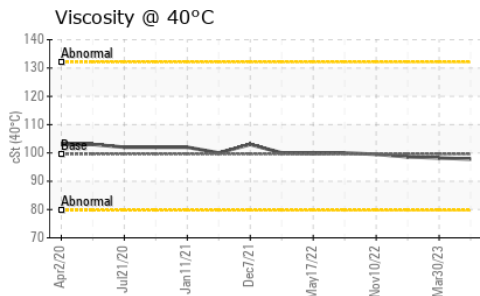
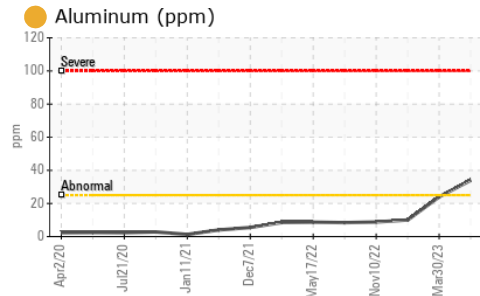
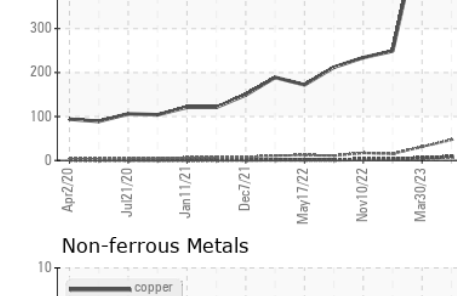
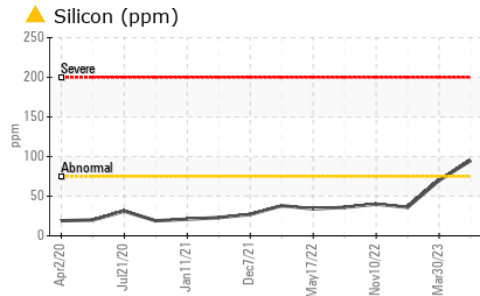
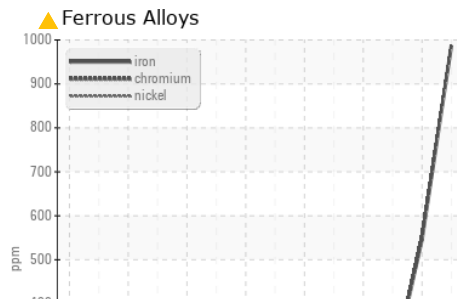
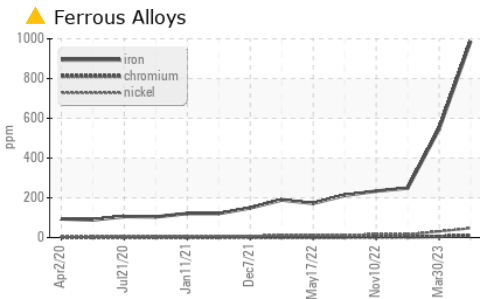
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 95	70	36
Potassium	ppm	ASTM D5185m	>20	7	5	2
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	MODER	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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		15	14	10
Boron	ppm	ASTM D5185m	328	225	324	219
Barium	ppm	ASTM D5185m	1	3	3	0
Molybdenum	ppm	ASTM D5185m		1	1	<1
Manganese	ppm	ASTM D5185m		21	18	12
Magnesium	ppm	ASTM D5185m	1	13	9	5
Calcium	ppm	ASTM D5185m	7	37	26	21
Phosphorus	ppm	ASTM D5185m	1145	1612	1606	1361
Zinc	ppm	ASTM D5185m	3	49	38	22
Sulfur	ppm	ASTM D5185m	17909	27826	27019	23158
Visc @ 40°C	cSt	ASTM D445	99.6	97.8	98.2	98.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0105537
Lab Number : 06174481
Unique Number : 11020534
Test Package : FLEET
Received : 09 May 2024
Tested : 10 May 2024
Diagnosed : 13 May 2024 - Don Baldrige

PERDUE FARMS - BRIDGEVILLE
 8634 E NEWTON RD
 BRIDGEVILLE, DE
 US 19933
 Contact: GEORGE LACATES

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)

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