



Machine Id
Volvo 26558
 Component
Front Differential
 Fluid
PETRO CANADA TRAXON E SYNTHETIC 75W-90 (--- GAL)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0106093	PCA0116038	PCA0099162
Sample Date		Client Info		08 May 2024	24 Jan 2024	23 May 2023
Machine Age	mls	Client Info		443851	433227	392039
Oil Age	mls	Client Info		0	433227	392039
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR

Bearing and/or bushing wear is indicated.

Iron	ppm	ASTM D5185m	>500	378	404	362
Chromium	ppm	ASTM D5185m	>10	3	3	3
Nickel	ppm	ASTM D5185m	>10	4	10	4
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	5	2
Lead	ppm	ASTM D5185m	>25	▲ 14	0	▲ 14
Copper	ppm	ASTM D5185m	>100	▲ 136	6	▲ 128
Tin	ppm	ASTM D5185m	>10	▲ 12	<1	▲ 13
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

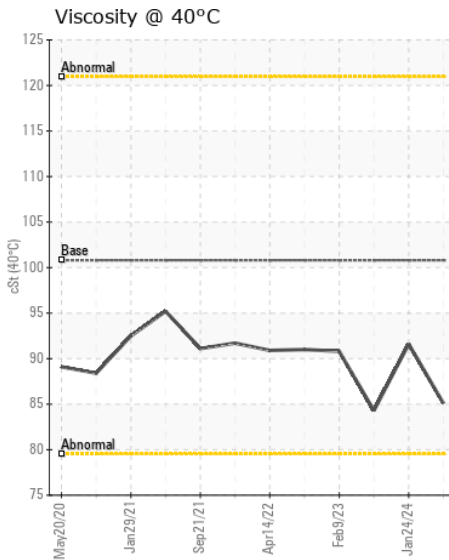
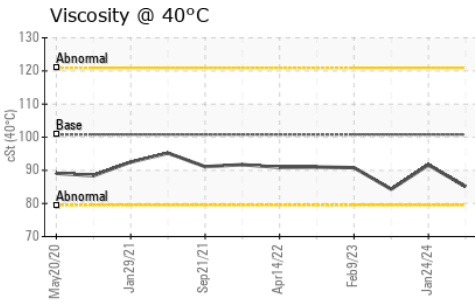
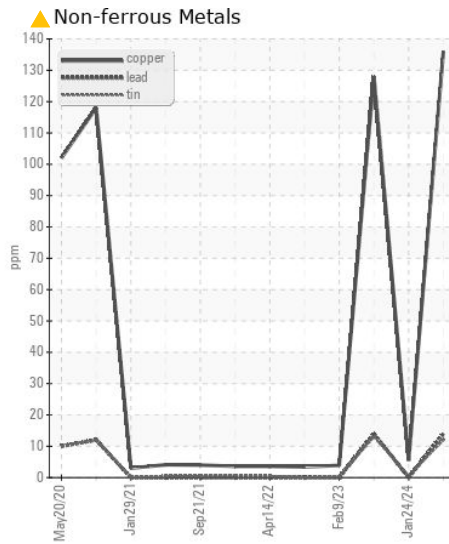
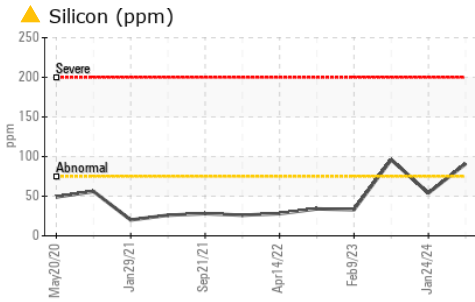
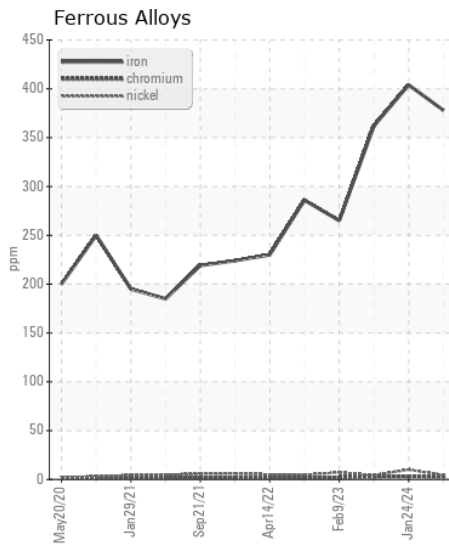
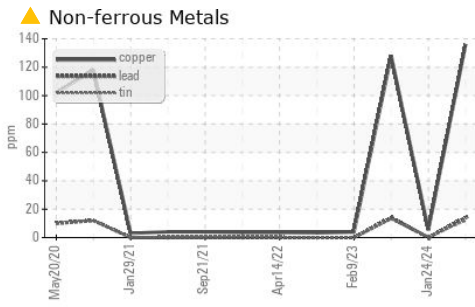
Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material.

Silicon	ppm	ASTM D5185m	>75	▲ 91	54	▲ 96
Potassium	ppm	ASTM D5185m	>20	6	7	4
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT	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		10	13	12
Boron	ppm	ASTM D5185m	229	147	305	163
Barium	ppm	ASTM D5185m	<1	<1	2	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		11	18	11
Magnesium	ppm	ASTM D5185m	<1	1	2	0
Calcium	ppm	ASTM D5185m		9	17	9
Phosphorus	ppm	ASTM D5185m	1355	1567	2078	1481
Zinc	ppm	ASTM D5185m		28	31	22
Sulfur	ppm	ASTM D5185m	22698	27814	33977	28698
Visc @ 40°C	cSt	ASTM D445	100.8	85.1	91.6	84.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0106093
Lab Number : 06174500
Unique Number : 11020553
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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F: