



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
VOLVO VLN630 7952 (S/N 4V4ML9EG7EN173869)

Component
Rear Differential

Fluid
CASTROL SYNTEC FULL SYNTHETIC 75W90 (--- QTS)

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		PCA0106095	PCA0085298	PCA0061649
Sample Date		Client Info		04 Mar 2024	30 Nov 2022	22 Nov 2021
Machine Age	mls	Client Info		437857	383417	368248
Oil Age	mls	Client Info		0	383417	354129
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Not Changed	Not Changed	Not Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	499	377	364
Chromium	ppm	ASTM D5185m	>10	5	4	4
Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	3
Aluminum	ppm	ASTM D5185m	>25	10	8	9
Lead	ppm	ASTM D5185m	>25	<1	0	<1
Copper	ppm	ASTM D5185m	>100	7	4	4
Tin	ppm	ASTM D5185m	>10	<1	1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

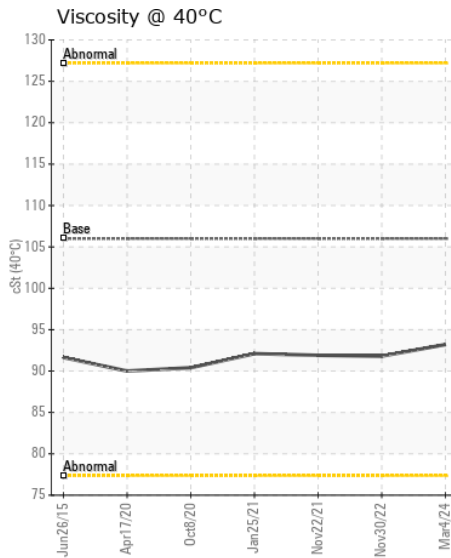
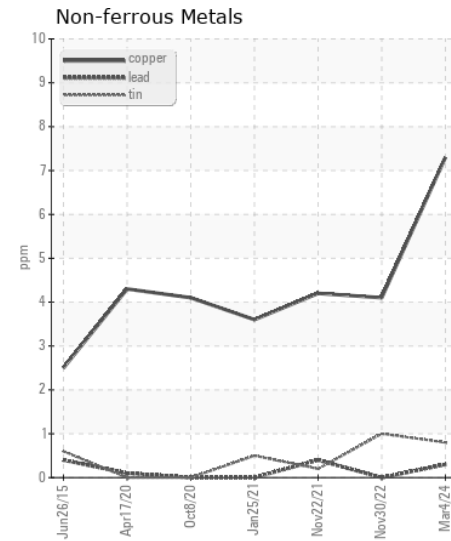
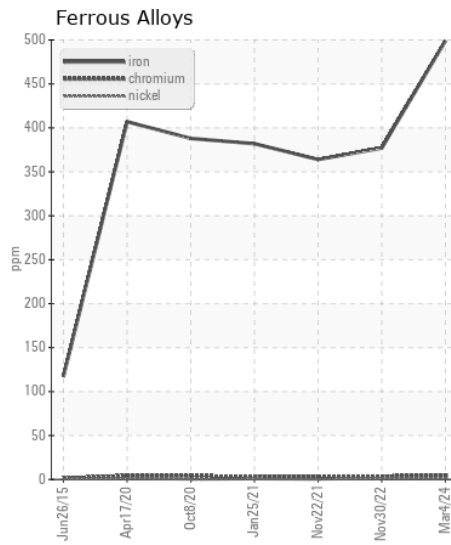
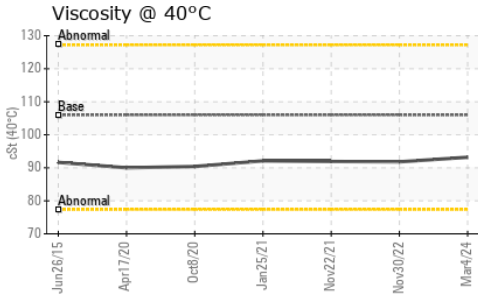
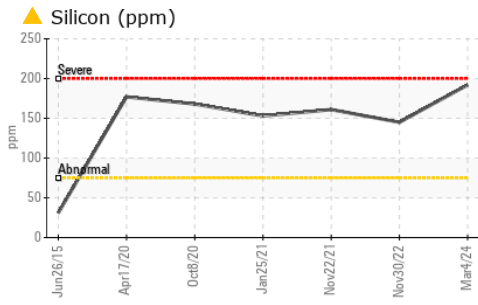
Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material.

Silicon	ppm	ASTM D5185m	>75	▲ 192	▲ 145	▲ 161
Potassium	ppm	ASTM D5185m	>20	6	4	2
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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		12	11	11
Boron	ppm	ASTM D5185m		190	148	157
Barium	ppm	ASTM D5185m		4	0	1
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		7	5	6
Magnesium	ppm	ASTM D5185m		7	7	6
Calcium	ppm	ASTM D5185m		25	22	19
Phosphorus	ppm	ASTM D5185m		1494	1369	1297
Zinc	ppm	ASTM D5185m		29	4	24
Sulfur	ppm	ASTM D5185m		25574	25056	22402
Visc @ 40°C	cSt	ASTM D445	106	93.2	91.8	91.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0106095 **Received** : 09 May 2024
Lab Number : 06174463 **Tested** : 10 May 2024
Unique Number : 11020516 **Diagnosed** : 13 May 2024 - Don Baldrige
Test Package : FLEET

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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