



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

Component
Front Differential

Fluid
CASTROL SYNTEC FULL 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		PCA0106096	PCAMF012892	---
Sample Date		Client Info		04 Mar 2024	26 Jun 2015	---
Machine Age	mls	Client Info		437857	0	---
Oil Age	mls	Client Info		0	0	---
Filter Age	mls	Client Info		0	0	---
Oil Changed		Client Info		Not Changed	Changed	---
Filter Changed		Client Info		Not Changed	Changed	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

Bearing and/or gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	▲ 831	238	---
Chromium	ppm	ASTM D5185m	>10	7	2	---
Nickel	ppm	ASTM D5185m	>10	4	1	---
Titanium	ppm	ASTM D5185m		1	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	● 12	<1	---
Lead	ppm	ASTM D5185m	>25	11	11	---
Copper	ppm	ASTM D5185m	>100	▲ 104	95	---
Tin	ppm	ASTM D5185m	>10	8	10	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

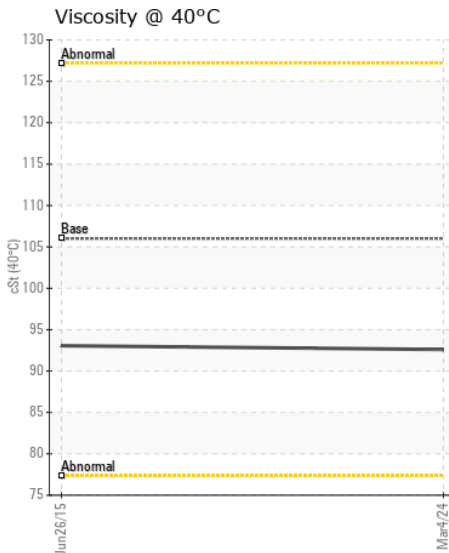
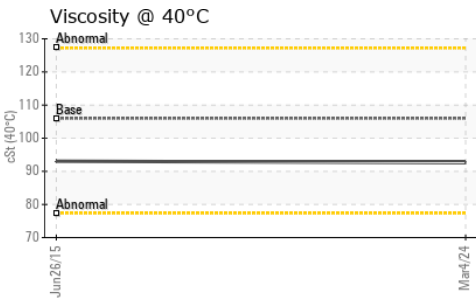
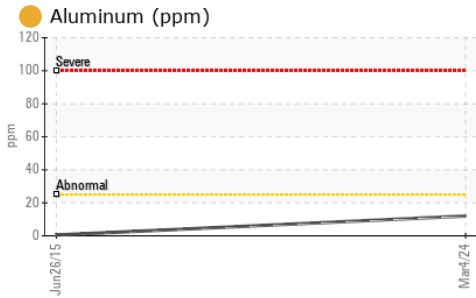
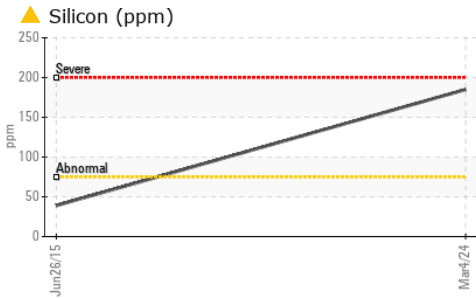
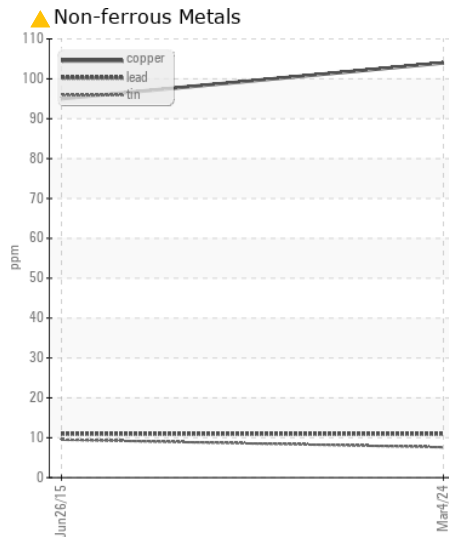
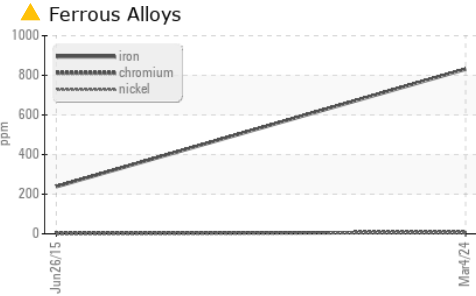
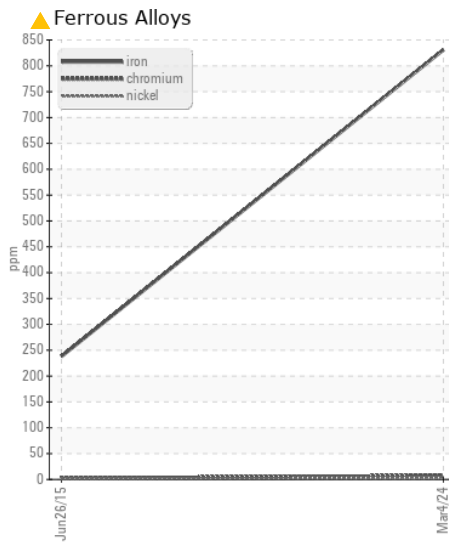
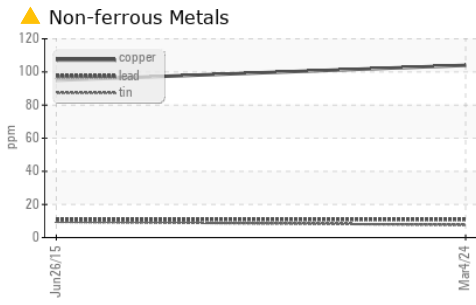
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 185	39	---
Potassium	ppm	ASTM D5185m	>20	11	9	---
Water		WC Method	>.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	MODER	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		19	9	---
Boron	ppm	ASTM D5185m		230	220	---
Barium	ppm	ASTM D5185m		2	0	---
Molybdenum	ppm	ASTM D5185m		1	0	---
Manganese	ppm	ASTM D5185m		16	7	---
Magnesium	ppm	ASTM D5185m		11	0	---
Calcium	ppm	ASTM D5185m		31	4	---
Phosphorus	ppm	ASTM D5185m		1543	1348	---
Zinc	ppm	ASTM D5185m		38	15	---
Sulfur	ppm	ASTM D5185m		26116	31771	---
Visc @ 40°C	cSt	ASTM D445	106	92.6	93.06	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0106096
Lab Number : 06174462
Unique Number : 11020515
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: ROBERT LOCKWOOD
 robertlockwood@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: (302)855-5635

F: