



ASCENDUM

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO L30GS 3224582
Component
Front Differential
Fluid
VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)

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		ASC0007049	ASC0007839	---
Sample Date		Client Info		05 Jun 2024	11 Mar 2024	---
Machine Age	hrs	Client Info		6979	6979	---
Oil Age	hrs	Client Info		6979	6979	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		N/A	None	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	▲ 981	379	---
Chromium	ppm	ASTM D5185m	>10	● 10	5	---
Nickel	ppm	ASTM D5185m	>10	1	<1	---
Titanium	ppm	ASTM D5185m		3	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	▲ 41	2	---
Lead	ppm	ASTM D5185m	>25	<1	0	---
Copper	ppm	ASTM D5185m	>100	2	<1	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

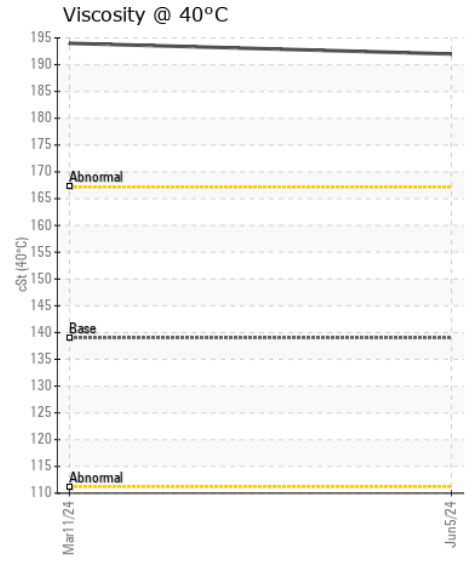
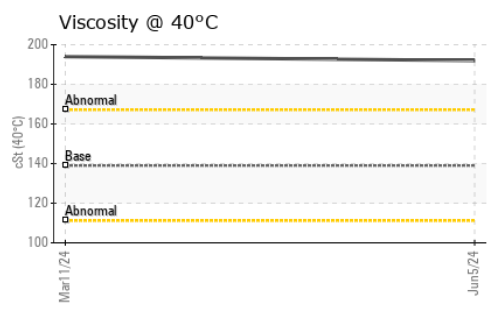
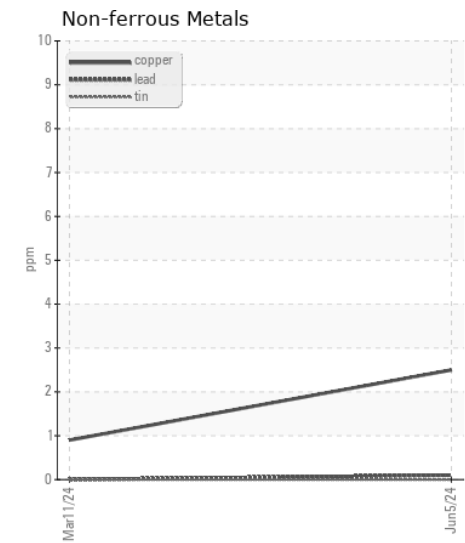
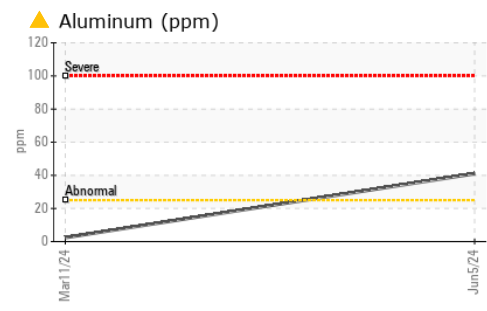
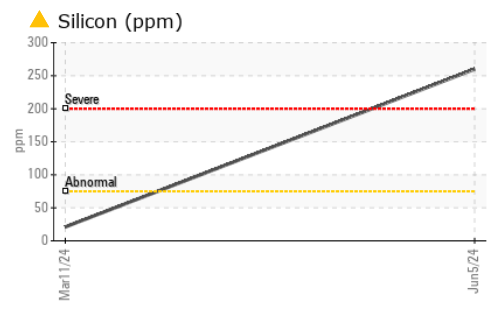
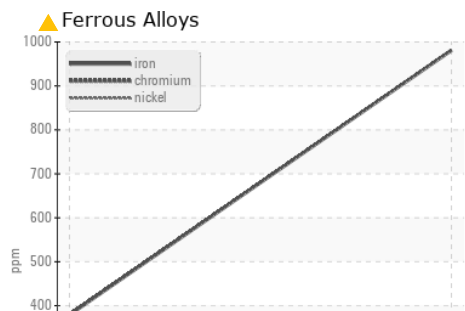
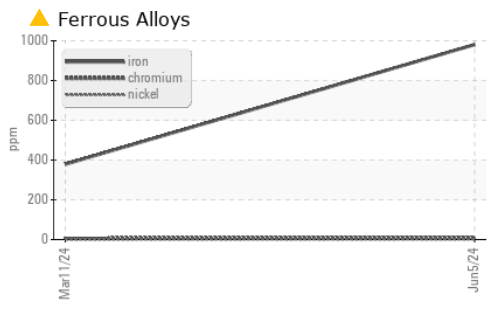
There is a high amount of visible silt present in the sample. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 260	21	---
Potassium	ppm	ASTM D5185m	>20	9	<1	---
Water		WC Method	>.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	▲ HEAVY	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
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		6	4	---
Boron	ppm	ASTM D5185m	379	3	3	---
Barium	ppm	ASTM D5185m	0.0	2	1	---
Molybdenum	ppm	ASTM D5185m	0.8	1	<1	---
Manganese	ppm	ASTM D5185m	0.0	11	10	---
Magnesium	ppm	ASTM D5185m	31	9	6	---
Calcium	ppm	ASTM D5185m	38	15	18	---
Phosphorus	ppm	ASTM D5185m	1077	2196	2379	---
Zinc	ppm	ASTM D5185m	46	57	59	---
Sulfur	ppm	ASTM D5185m	23526	35597	32342	---
Visc @ 40°C	cSt	ASTM D445	139	192	194	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0007049
Lab Number : 06210545
Unique Number : 11083409
Test Package : CONST
Received : 14 Jun 2024
Tested : 17 Jun 2024
Diagnosed : 17 Jun 2024 - Angela Borella

SITEONE LANDSCAPE SUPPLY LLC
 300 COLONIAL CENTER PKWY, SUITE 600
 ROSWELL, GA
 US 30076
 Contact: Service Manager

Certificate L2367
 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: