



Machine Id
VOLVO A25D 1017 (S/N 134424)
Component
Rear Differential
Fluid
GEAR OIL SAE 80W90 (--- 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		CL0005062	CL0003993	CL0002198
Sample Date		Client Info		03 Jan 2024	05 Feb 2023	01 Jun 2021
Machine Age	hrs	Client Info		14280	13330	12580
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>900	721	808	659
Chromium	ppm	ASTM D5185m	>20	5	6	5
Nickel	ppm	ASTM D5185m	>10	5	6	5
Titanium	ppm	ASTM D5185m		1	2	2
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>30	▲ 11	▲ 16	▲ 17
Lead	ppm	ASTM D5185m	>50	<1	1	1
Copper	ppm	ASTM D5185m	>150	64	70	63
Tin	ppm	ASTM D5185m	>20	2	4	3
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

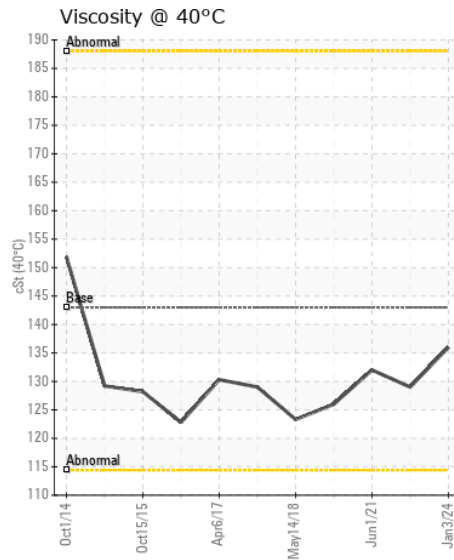
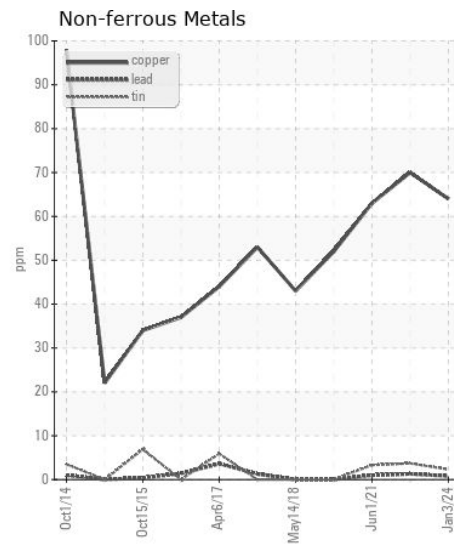
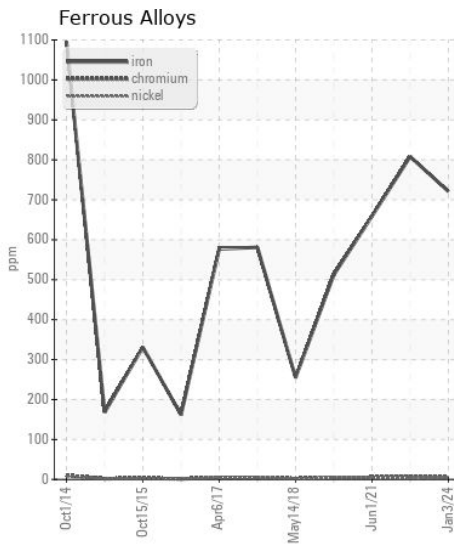
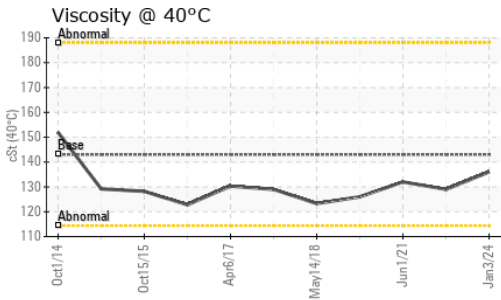
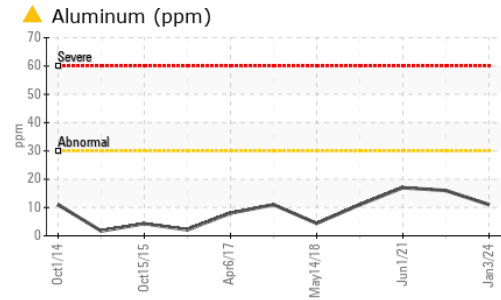
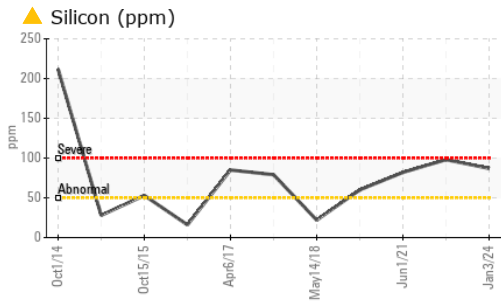
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>50	▲ 87	▲ 98	▲ 82
Potassium	ppm	ASTM D5185m	>20	4	2	3
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	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	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>170	0	2	2
Boron	ppm	ASTM D5185m	400	40	31	42
Barium	ppm	ASTM D5185m	200	0	0	0
Molybdenum	ppm	ASTM D5185m	12	<1	1	1
Manganese	ppm	ASTM D5185m		6	6	5
Magnesium	ppm	ASTM D5185m	12	8	9	9
Calcium	ppm	ASTM D5185m	150	92	111	91
Phosphorus	ppm	ASTM D5185m	1650	619	566	542
Zinc	ppm	ASTM D5185m	125	36	62	59
Sulfur	ppm	ASTM D5185m	22500	19682	21427	16409
Visc @ 40°C	cSt	ASTM D445	143	136	129	132



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : CL0005062 **Received** : 10 Jan 2024
Lab Number : 06057506 **Diagnosed** : 12 Jan 2024
Unique Number : 10823455 **Diagnostician** : Sean Felton
Test Package : CONST

PURCELL CONSTRUCTION
 3100 HIGH RIDGE RD
 CHARLOTTE, NC
 US 28270
 Contact: BEN MILKE
 ben@purcellconst.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)

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