



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO A25C 1012 (S/N 61498)
Component
Rear Differential
Fluid
GEAR OIL SAE 90W140 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CL0005048	CL0003914	CL0003482
Sample Date		Client Info		04 Jan 2024	16 Jan 2023	12 Aug 2022
Machine Age	hrs	Client Info		19000	18395	18127
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				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>900	184	207	185
Chromium	ppm	ASTM D5185m	>20	2	2	2
Nickel	ppm	ASTM D5185m	>10	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>30	4	8	8
Lead	ppm	ASTM D5185m	>50	0	<1	<1
Copper	ppm	ASTM D5185m	>150	9	10	10
Tin	ppm	ASTM D5185m	>20	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

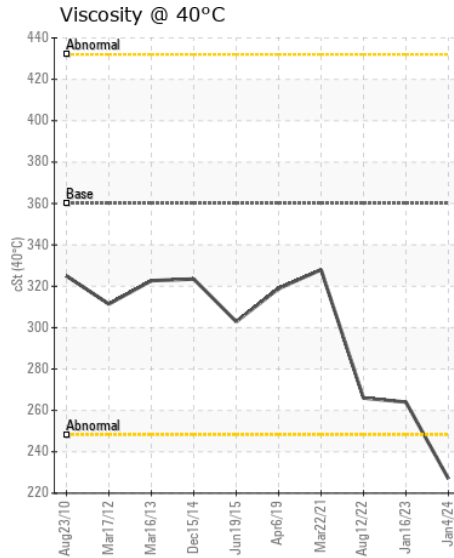
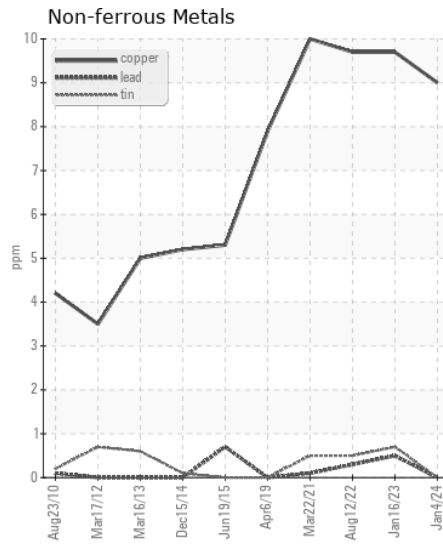
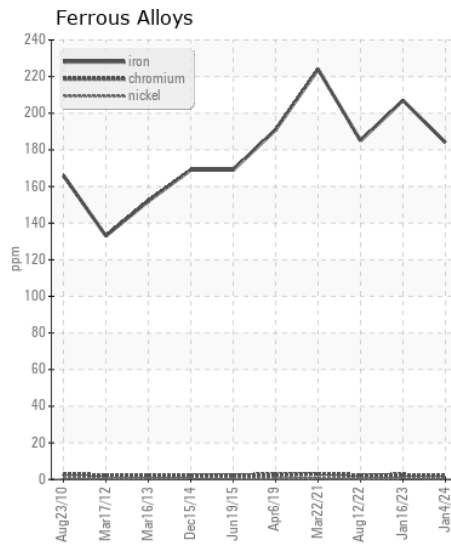
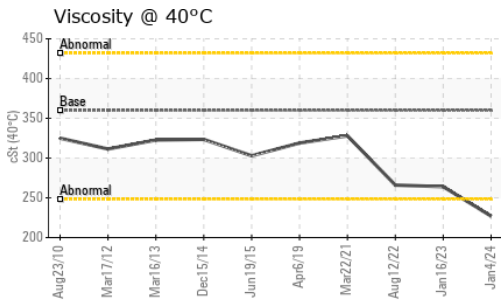
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>50	37	39	38
Potassium	ppm	ASTM D5185m	>20	3	4	3
Water		WC Method	>0.2	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	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	2	<1
Boron	ppm	ASTM D5185m	400	94	96	94
Barium	ppm	ASTM D5185m	200	0	0	1
Molybdenum	ppm	ASTM D5185m	12	<1	1	1
Manganese	ppm	ASTM D5185m		2	3	3
Magnesium	ppm	ASTM D5185m	12	7	7	8
Calcium	ppm	ASTM D5185m	150	38	39	46
Phosphorus	ppm	ASTM D5185m	1650	788	850	840
Zinc	ppm	ASTM D5185m	125	4	9	30
Sulfur	ppm	ASTM D5185m	22500	21488	25056	20715
Visc @ 40°C	cSt	ASTM D445	360	227	264	266



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : CL0005048 **Received** : 10 Jan 2024
Lab Number : 06057504 **Diagnosed** : 12 Jan 2024
Unique Number : 10823453 **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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