



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**VOLVO A25C 1012 (S/N 61498)**  
Component  
**Front Differential**  
Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>CL0005047</b>	CL0003912	CL0003480
Sample Date		Client Info		<b>04 Jan 2024</b>	16 Jan 2023	12 Aug 2022
Machine Age	hrs	Client Info		<b>19000</b>	18395	18127
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>900	<b>550</b>	491	462
Chromium	ppm	ASTM D5185m	>20	<b>8</b>	7	7
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	2	2
Titanium	ppm	ASTM D5185m		<b>2</b>	2	1
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>30	<b>9</b>	11	11
Lead	ppm	ASTM D5185m	>50	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>150	<b>48</b>	42	42
Tin	ppm	ASTM D5185m	>20	<b>1</b>	2	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

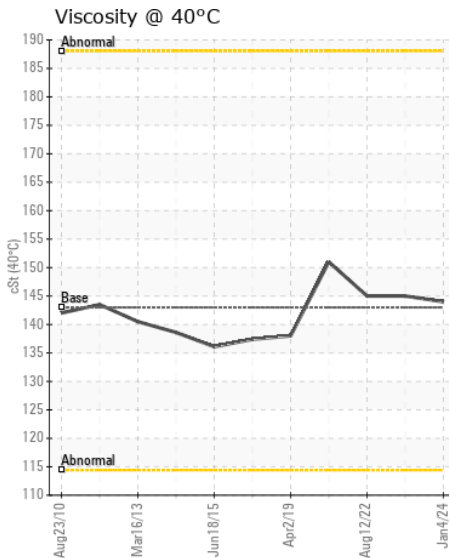
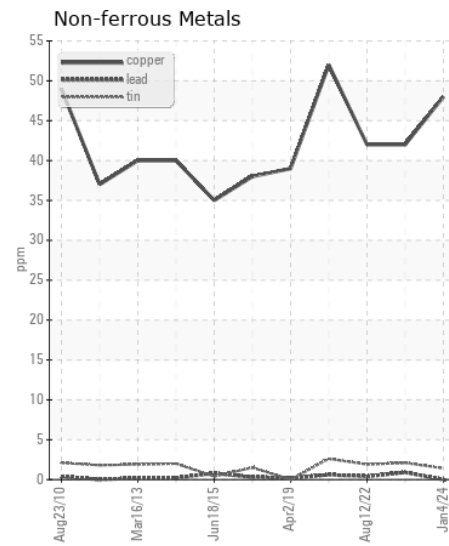
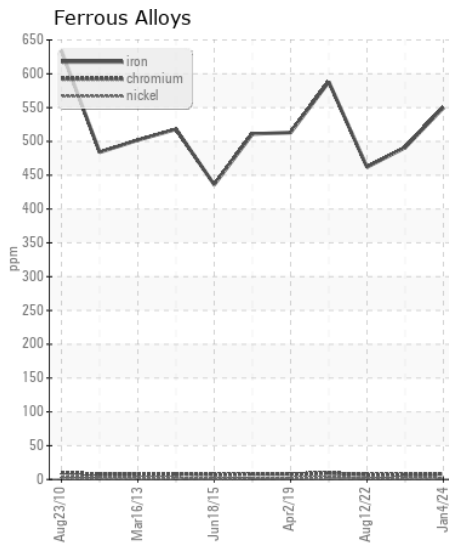
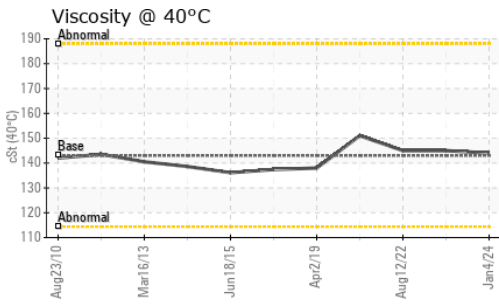
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>49</b>	42	40
Potassium	ppm	ASTM D5185m	>20	<b>10</b>	9	9
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m	>170	<b>0</b>	2	1
Boron	ppm	ASTM D5185m	400	<b>153</b>	152	153
Barium	ppm	ASTM D5185m	200	<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m	12	<b>2</b>	2	2
Manganese	ppm	ASTM D5185m		<b>10</b>	8	8
Magnesium	ppm	ASTM D5185m	12	<b>7</b>	5	6
Calcium	ppm	ASTM D5185m	150	<b>53</b>	35	35
Phosphorus	ppm	ASTM D5185m	1650	<b>1026</b>	1030	1060
Zinc	ppm	ASTM D5185m	125	<b>12</b>	10	30
Sulfur	ppm	ASTM D5185m	22500	<b>20143</b>	24545	21162
Visc @ 40°C	cSt	ASTM D445	143	<b>144</b>	145	145



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : CL0005047  
**Lab Number** : 06057497  
**Unique Number** : 10823446  
**Test Package** : CONST

**Received** : 10 Jan 2024  
**Diagnosed** : 11 Jan 2024  
**Diagnostician** : Wes Davis

**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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F: