



# ASCENDUM

## OIL ANALYSIS REPORT

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



Area  
**Ascendum Machinery**  
Machine Id  
**VOLVO L45H 4122284**  
Component  
**Rear Axle**  
Fluid  
**TDH FLUID SAE 75W80 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ASC0009601</b>	ASC0005301	VCP327194
Sample Date		Client Info		<b>17 May 2024</b>	27 Oct 2023	23 Sep 2021
Machine Age	hrs	Client Info		<b>7355</b>	6259	2542
Oil Age	hrs	Client Info		<b>1096</b>	3717	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	None	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>68</b>	111	61
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	4	3
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>30	<b>0</b>	<1	4
Lead	ppm	ASTM D5185m	>50	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>120	<b>4</b>	7	7
Tin	ppm	ASTM D5185m	>20	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

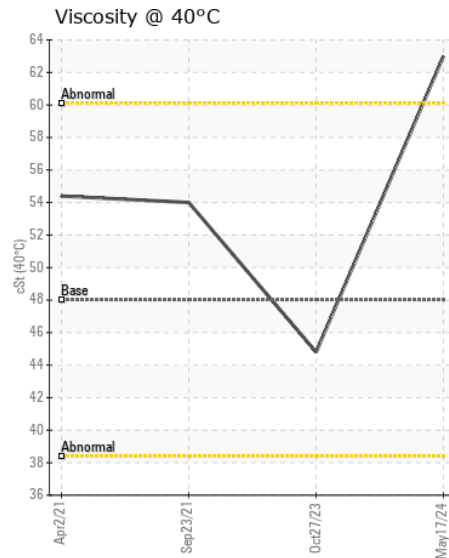
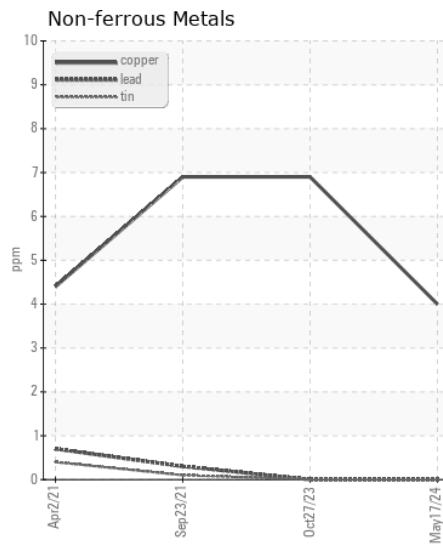
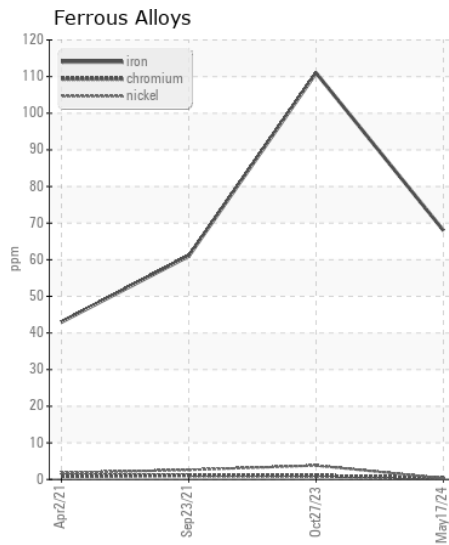
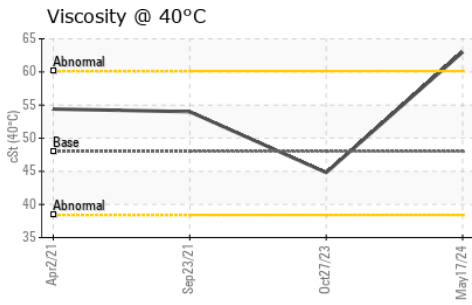
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>16</b>	12	12
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	3
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>MODER</b>	NONE	VLITE
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		<b>4</b>	11	13
Boron	ppm	ASTM D5185m	10	<b>163</b>	116	113
Barium	ppm	ASTM D5185m	10	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	10	<b>2</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>2</b>	3	3
Magnesium	ppm	ASTM D5185m	100	<b>14</b>	15	9
Calcium	ppm	ASTM D5185m	3500	<b>4202</b>	3399	3311
Phosphorus	ppm	ASTM D5185m	1150	<b>1435</b>	1183	1148
Zinc	ppm	ASTM D5185m	1150	<b>1651</b>	1378	1326
Sulfur	ppm	ASTM D5185m	5000	<b>4799</b>	4003	3622
Visc @ 40°C	cSt	ASTM D445	48	<b>63.0</b>	44.8	54.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0009601  
**Lab Number** : 06191384  
**Unique Number** : 11048136  
**Test Package** : CONST

**Received** : 24 May 2024  
**Tested** : 29 May 2024  
**Diagnosed** : 29 May 2024 - Sean Felton

**BENFIELD SANITATION SERVICES**  
 282 SCOTTS CREEK RD  
 STATESVILLE, NC  
 US 28625  
 Contact: Service Manager

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: