



# ASCENDUM

## OIL ANALYSIS REPORT



Area  
**Ascendum Machinery**  
 Machine Id  
**VOLVO L220H 3075**  
 Component  
**Front Axle**  
 Fluid  
**VOLVO WB 102 (--- GAL)**

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

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ASC0009788</b>	ASC0007671	VCP349268
Sample Date		Client Info		<b>17 Jun 2024</b>	22 Feb 2024	28 Feb 2022
Machine Age	hrs	Client Info		<b>8014</b>	7496	4198
Oil Age	hrs	Client Info		<b>4716</b>	3298	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>42</b>	30	21
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>1</b>	<1	1
Lead	ppm	ASTM D5185m	>50	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>120	<b>12</b>	10	1
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

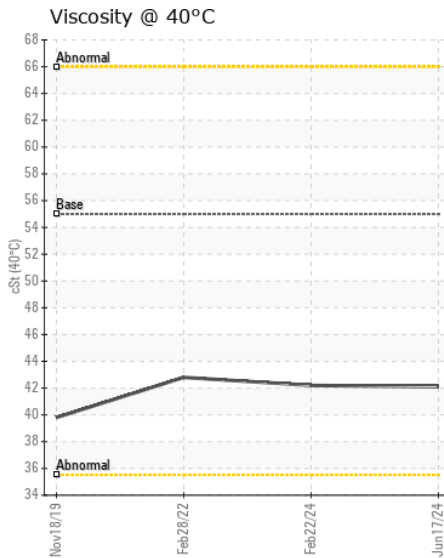
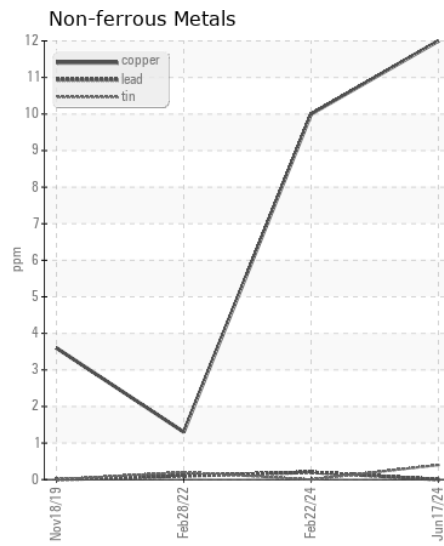
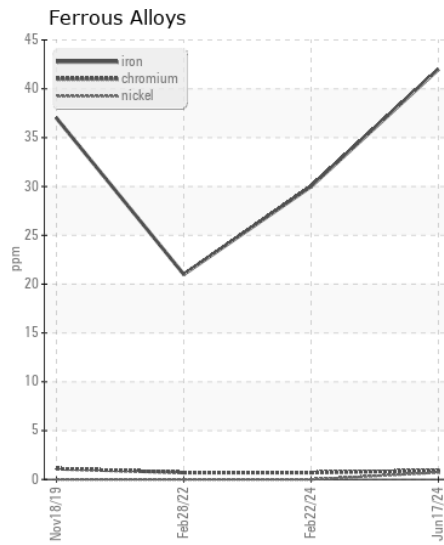
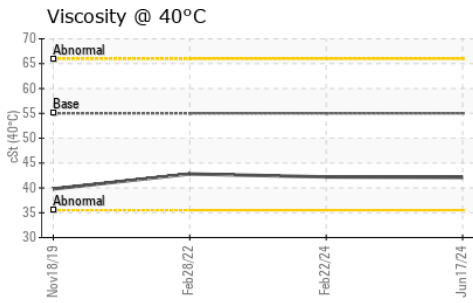
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>13</b>	11	13
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	0
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>	▲ MODER	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>8</b>	7	6
Boron	ppm	ASTM D5185m		<b>118</b>	117	134
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>2</b>	1	<1
Magnesium	ppm	ASTM D5185m		<b>14</b>	14	12
Calcium	ppm	ASTM D5185m		<b>3859</b>	3650	3996
Phosphorus	ppm	ASTM D5185m		<b>1336</b>	1271	1313
Zinc	ppm	ASTM D5185m		<b>1581</b>	1534	1615
Sulfur	ppm	ASTM D5185m		<b>4864</b>	3650	4118
Visc @ 40°C	cSt	ASTM D445	55	<b>42.1</b>	42.2	42.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0009788  
**Lab Number** : 06217154  
**Unique Number** : 11090018  
**Test Package** : CONST

**Received** : 21 Jun 2024  
**Tested** : 24 Jun 2024  
**Diagnosed** : 24 Jun 2024 - Wes Davis

**GERDAU AMERISTEEL**  
 4221 W BOY SCOUT BLVD #600  
 TAMPA, FL  
 US 33607  
 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)

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F: