



# 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>ABNORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ASC0007671</b>	VCP349268	VCP261562
Sample Date		Client Info		<b>22 Feb 2024</b>	28 Feb 2022	18 Nov 2019
Machine Age	hrs	Client Info		<b>7496</b>	4198	1006
Oil Age	hrs	Client Info		<b>3298</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changed</b>	Changed	Not Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>30</b>	21	37
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>30	<b>&lt;1</b>	1	<1
Lead	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>120	<b>10</b>	1	4
Tin	ppm	ASTM D5185m	>20	<b>0</b>	<1	0
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

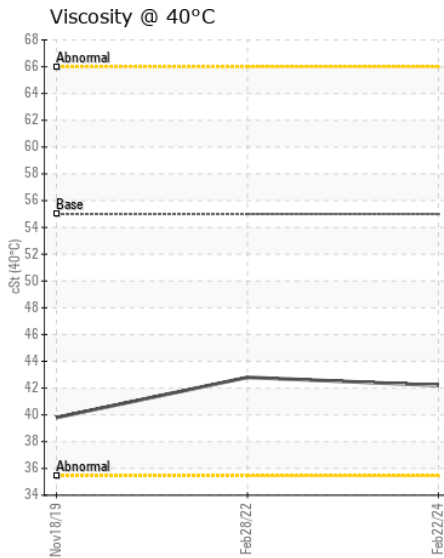
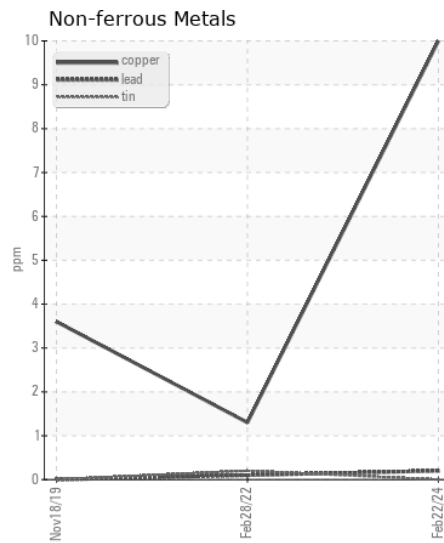
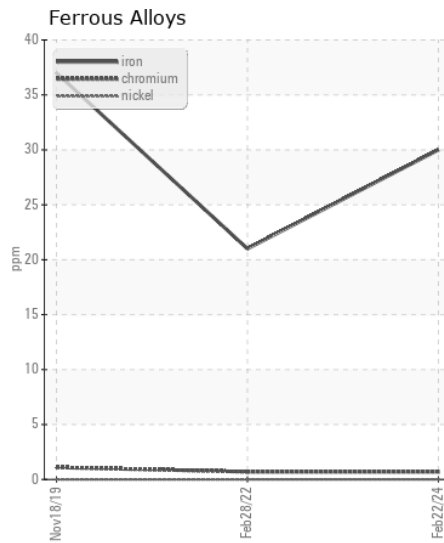
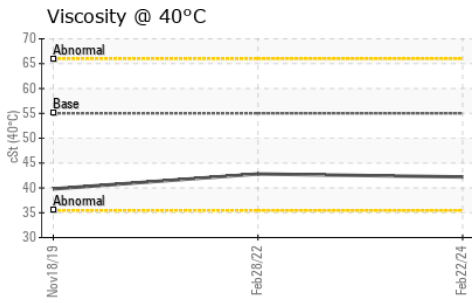
Moderate concentration of visible dirt/debris present in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>11</b>	13	12
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	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>▲ MODER</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>7</b>	6	4
Boron	ppm	ASTM D5185m		<b>117</b>	134	115
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	5
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	2
Magnesium	ppm	ASTM D5185m		<b>14</b>	12	8
Calcium	ppm	ASTM D5185m		<b>3650</b>	3996	4069
Phosphorus	ppm	ASTM D5185m		<b>1271</b>	1313	1268
Zinc	ppm	ASTM D5185m		<b>1534</b>	1615	1662
Sulfur	ppm	ASTM D5185m		<b>3650</b>	4118	3328
Visc @ 40°C	cSt	ASTM D445	55	<b>42.2</b>	42.8	39.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0007671  
**Lab Number** : 06102067  
**Unique Number** : 10900297  
**Test Package** : CONST  
**Received** : 27 Feb 2024  
**Tested** : 28 Feb 2024  
**Diagnosed** : 29 Feb 2024 - Jonathan Hester

**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)

T:  
F: