



# ASCENDUM

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area  
**Ascendum Machinery 500HR CSA/Lemon Springs, NC**  
Machine Id  
**VOLVO L180H 2127 (S/N 5262)**  
Component  
**Transmission (Auto)**  
Fluid  
**VOLVO AT 102 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0006288	ASC0002587	VCE087059
Sample Date		Client Info		11 Jan 2024	16 Nov 2023	15 Dec 2022
Machine Age	hrs	Client Info		7444	7030	5511
Oil Age	hrs	Client Info		3444	3030	0
Filter Age	hrs	Client Info		3444	3030	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>160	50	38	▲ 186
Chromium	ppm	ASTM D5185m	>5	<1	0	2
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>50	2	1	8
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>225	4	4	8
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

### CONTAMINATION

There is no indication of any contamination in the fluid.

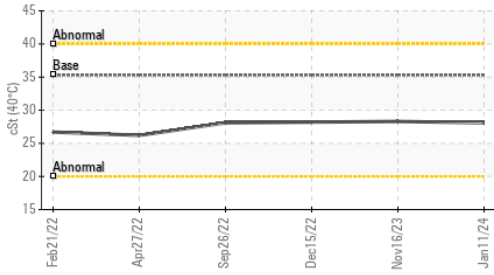
Silicon	ppm	ASTM D5185m	>20	8	8	6
Potassium	ppm	ASTM D5185m	>20	9	10	0
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

### FLUID CONDITION

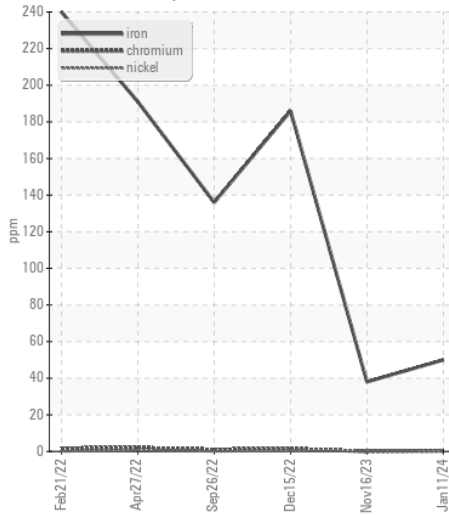
The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		0	5	2
Boron	ppm	ASTM D5185m	187	95	78	80
Barium	ppm	ASTM D5185m	0.0	4	0	0
Molybdenum	ppm	ASTM D5185m	0.0	0	0	<1
Manganese	ppm	ASTM D5185m	0.0	2	3	3
Magnesium	ppm	ASTM D5185m	6.8	0	2	1
Calcium	ppm	ASTM D5185m	215	76	72	83
Phosphorus	ppm	ASTM D5185m	445	242	189	152
Zinc	ppm	ASTM D5185m	56	0	0	0
Sulfur	ppm	ASTM D5185m	1336	2154	1945	1764
Visc @ 40°C	cSt	ASTM D445	35.3	28.1	28.3	28.2

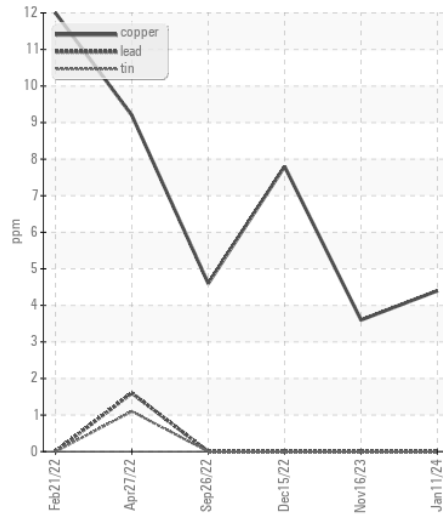
Viscosity @ 40°C



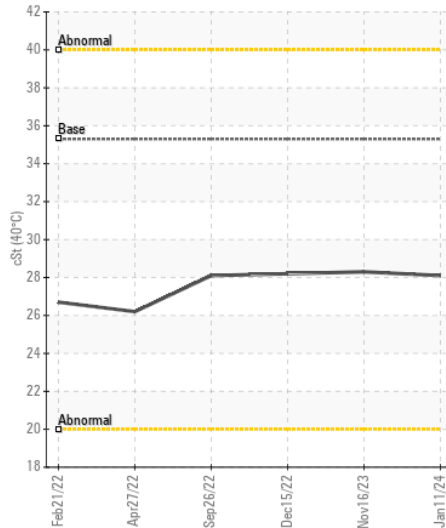
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0006288 **Received** : 17 Jan 2024  
**Lab Number** : 06063227 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10834609 **Diagnostician** : Don Baldrige  
**Test Package** : CONST

**G S MATERIALS INC**  
 PO BOX 1335  
 BURLINGTON, NC  
 US 27216

Contact: KAREN NEWPORT  
 Gsmaterials@windstream.net  
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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)