



# ASCENDUM

## OIL ANALYSIS REPORT



Area

**Blythe Construction CSA - Charlotte**

Machine Id

**VOLVO EW180D 3004292 (S/N 180D220328)**

Component

**Rear Left Final Drive**

Fluid

**VOLVO SUPER WET BRAKE TRANSAXLE OIL WB102 (--- GAL)**

WEAR

**ABNORMAL**

CONTAMINATION

**NORMAL**

FLUID CONDITION

**NORMAL**

### RECOMMENDATION

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0001799	ASC0005356	ASC0000062
Sample Date		Client Info		21 Feb 2024	23 Oct 2023	20 Jul 2023
Machine Age		Client Info		9969	9539	9047
Oil Age		Client Info		430	8528	1011
Filter Age		Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	ATTENTION

### WEAR

An increase in the copper level is noted. Bearing and/or bushing wear is indicated.

Iron	ppm	ASTM D5185m	>1200	34	686	2
Chromium	ppm	ASTM D5185m	>10	<1	2	<1
Nickel	ppm	ASTM D5185m	>10	2	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>100	2	0	1
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m	>200	297	4	0
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

### CONTAMINATION

There is no indication of any contamination in the oil.

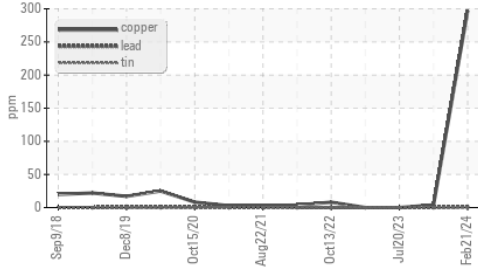
Silicon	ppm	ASTM D5185m	>100	28	6	12
Potassium	ppm	ASTM D5185m	>20	4	0	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

### FLUID CONDITION

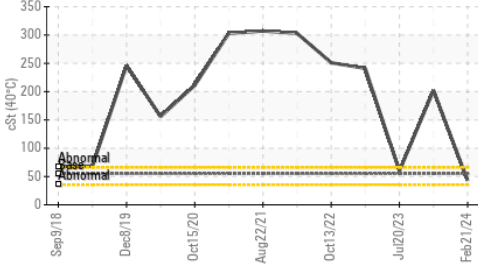
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		1	2	<1
Boron	ppm	ASTM D5185m		166	126	113
Barium	ppm	ASTM D5185m		5	0	0
Molybdenum	ppm	ASTM D5185m		3	0	8
Manganese	ppm	ASTM D5185m		2	4	<1
Magnesium	ppm	ASTM D5185m		20	0	48
Calcium	ppm	ASTM D5185m		4725	527	3270
Phosphorus	ppm	ASTM D5185m		1505	693	1093
Zinc	ppm	ASTM D5185m		1968	202	1448
Sulfur	ppm	ASTM D5185m		6180	22232	3979
Visc @ 40°C	cSt	ASTM D445	55	43.0	202	60.0

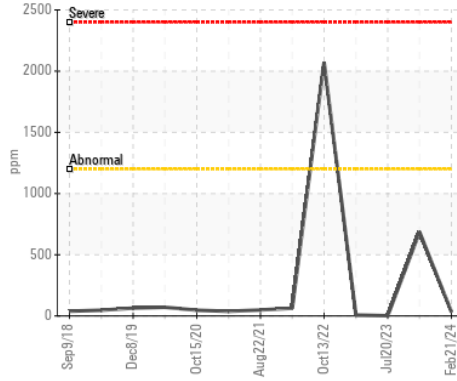
▲ Non-ferrous Metals



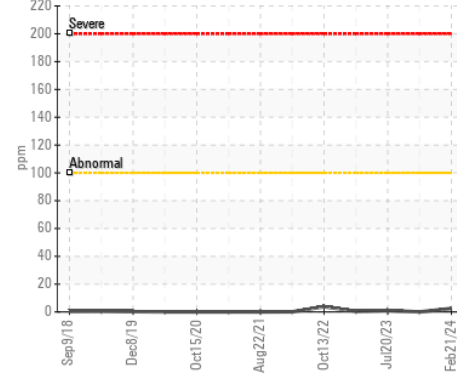
Viscosity @ 40°C



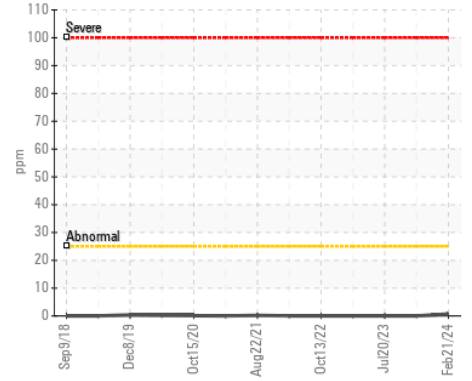
Iron (ppm)



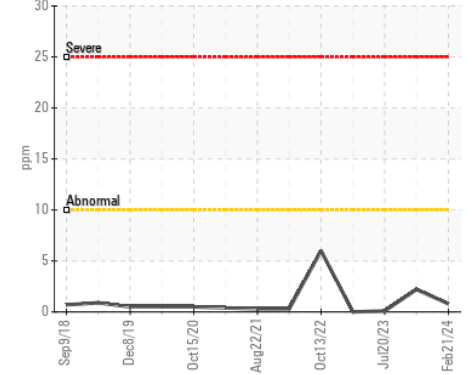
Aluminum (ppm)



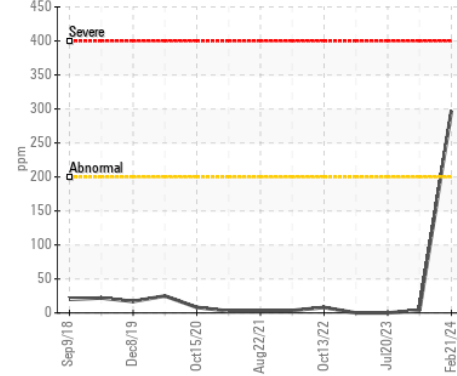
Lead (ppm)



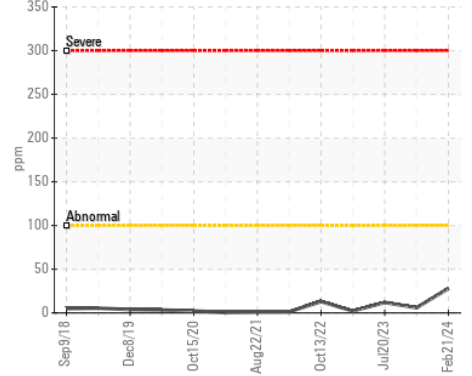
Chromium (ppm)



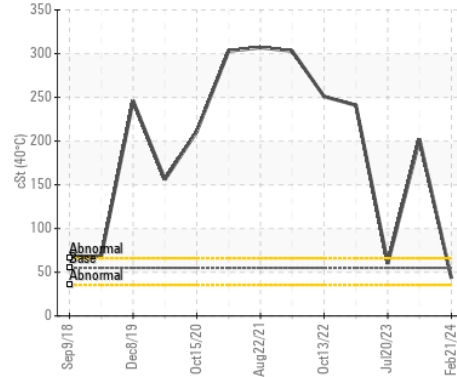
▲ Copper (ppm)



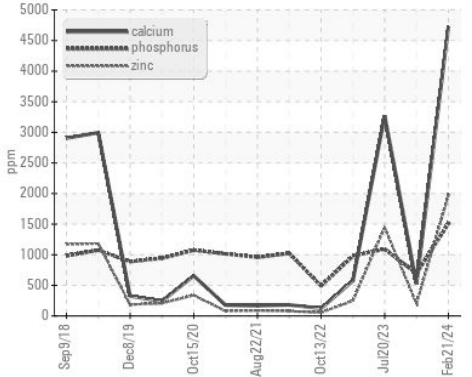
Silicon (ppm)



Viscosity @ 40°C



Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : ASC0001799

Lab Number : 06099459

Unique Number : 10897689

Test Package : MOBCE

Received : 23 Feb 2024

Tested : 26 Feb 2024

Diagnosed : 27 Feb 2024 - Don Baldrige

**BLYTHE CONSTRUCTION INC**

2911 N GRAHAM STREET

CHARLOTTE, NC

US 28231

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:

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