



ASCENDUM

OIL ANALYSIS REPORT

WEAR **NORMAL**

CONTAMINATION **SEVERE**

FLUID CONDITION **NORMAL**



Area

Blythe & Zachary JV CSA - I85 SC

Machine Id

VOLVO L35G 3105626 (S/N L35GS3424213)

Component

Front Axle

Fluid

VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0003292	ASC0003486	VCP308033
Sample Date		Client Info		02 Jul 2024	05 Dec 2023	24 Oct 2021
Machine Age	hrs	Client Info		4559	4003	1995
Oil Age	hrs	Client Info		4559	484	0
Filter Age	hrs	Client Info		0	484	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	Not Changed
Sample Status				SEVERE	SEVERE	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	280	251	103
Chromium	ppm	ASTM D5185m	>20	3	3	2
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>30	2	2	<1
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>120	<1	2	<1
Tin	ppm	ASTM D5185m	>20	0	1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

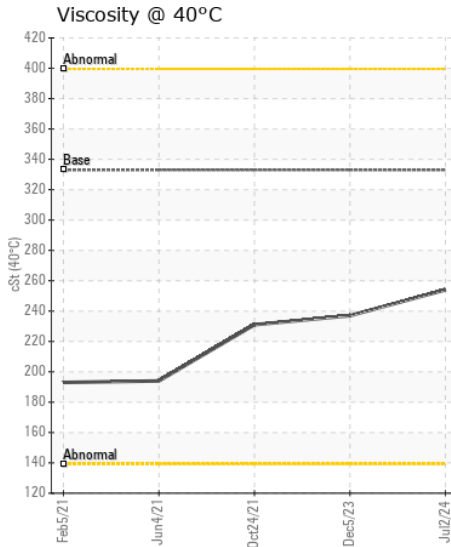
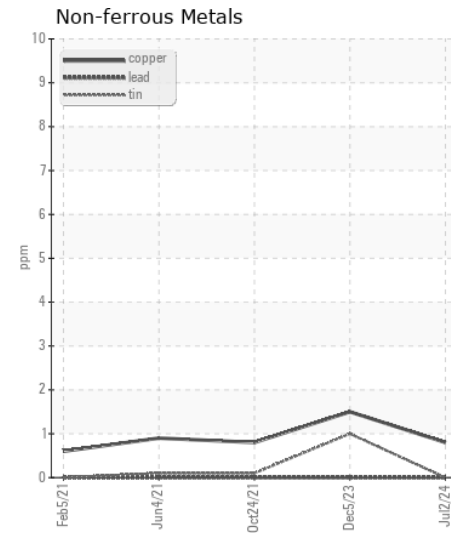
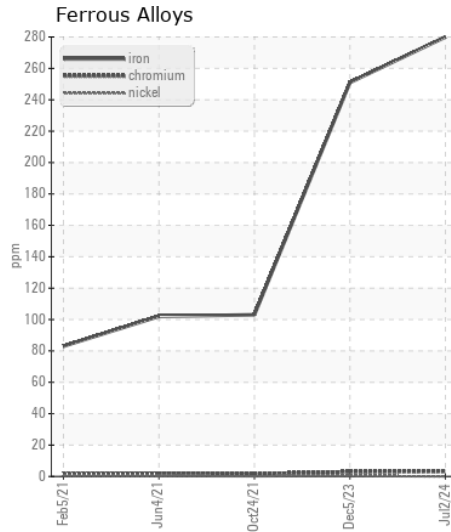
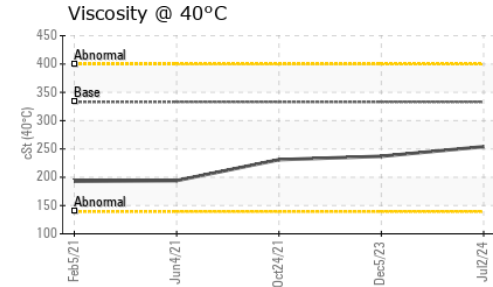
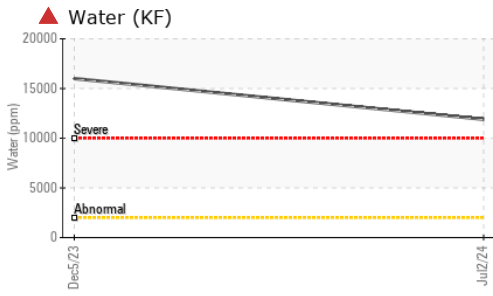
Appearance is milky. There is a high concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>50	14	17	14
Potassium	ppm	ASTM D5185m	>20	3	2	0
Water	%	ASTM D6304	>0.2	▲ 1.19	▲ 1.60	---
ppm Water	ppm	ASTM D6304	>2000	▲ 11900	▲ 16000	---
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	● MILKY	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	▲ 0.2%	▲ 0.2%	NEG

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		2	4	2
Boron	ppm	ASTM D5185m	111	70	44	91
Barium	ppm	ASTM D5185m	0.0	2	0	0
Molybdenum	ppm	ASTM D5185m	0.9	<1	0	<1
Manganese	ppm	ASTM D5185m	0.0	8	9	6
Magnesium	ppm	ASTM D5185m	39	19	13	7
Calcium	ppm	ASTM D5185m	93	58	71	34
Phosphorus	ppm	ASTM D5185m	920	1742	1823	1947
Zinc	ppm	ASTM D5185m	104	62	63	35
Sulfur	ppm	ASTM D5185m	20179	37819	30070	25056
Visc @ 40°C	cSt	ASTM D445	333	254	237	231



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0003292 **Received** : 03 Jul 2024
Lab Number : 06227876 **Tested** : 07 Jul 2024
Unique Number : 11111369 **Diagnosed** : 07 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF)

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)

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