



ASCENDUM

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

Ascendum Machinery/500 Hour CSA

Machine Id

VOLVO EC300E 2216 (S/N 300E316426)

Component

Swing Drive

Fluid

VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (2 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0011099	ASC0008941	VCP382539
Sample Date		Client Info		28 May 2024	31 Jan 2024	15 Feb 2023
Machine Age	hrs	Client Info		3994	3469	2505
Oil Age	hrs	Client Info		500	500	0
Filter Age	hrs	Client Info		500	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	192	198	127
Chromium	ppm	ASTM D5185m	>10	4	3	3
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	2	0
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>50	10	11	9
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

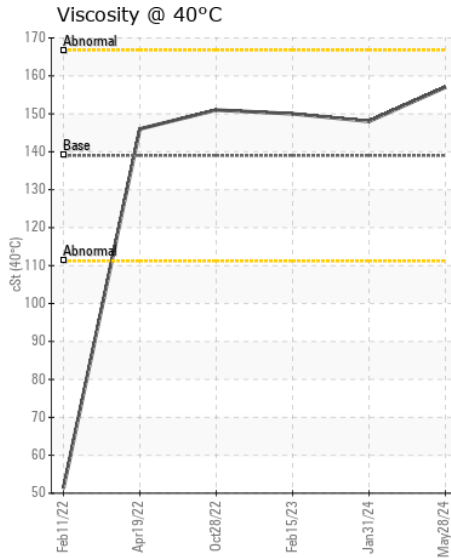
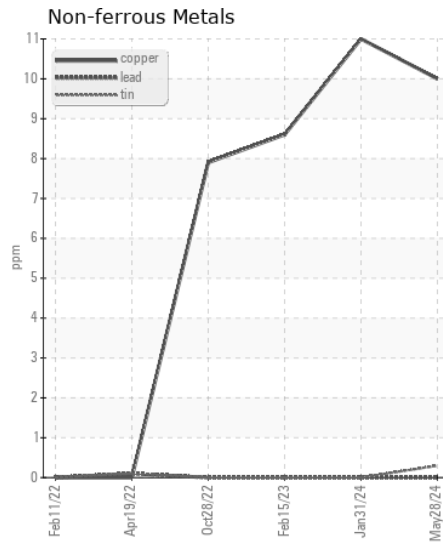
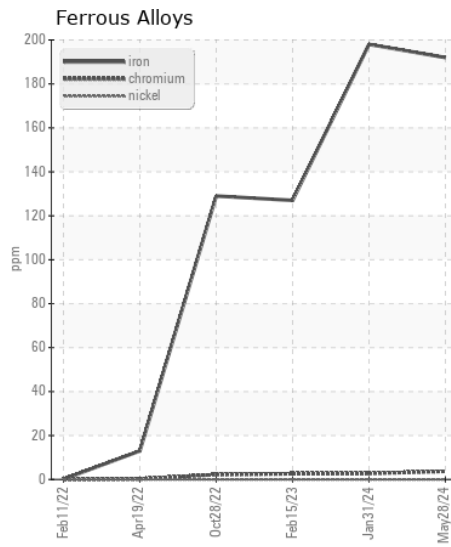
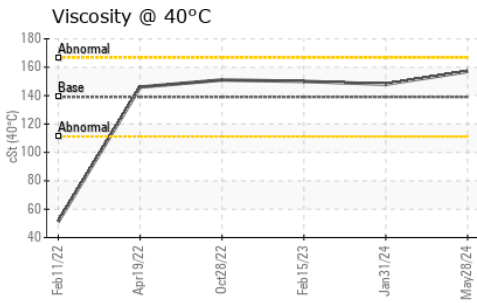
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	8	7	6
Potassium	ppm	ASTM D5185m	>20	2	1	0
Water		WC Method	>0.25	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	>0.25	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<1	0	<1
Boron	ppm	ASTM D5185m	379	138	139	153
Barium	ppm	ASTM D5185m	0.0	0	5	0
Molybdenum	ppm	ASTM D5185m	0.8	<1	0	<1
Manganese	ppm	ASTM D5185m	0.0	3	2	2
Magnesium	ppm	ASTM D5185m	31	1	0	1
Calcium	ppm	ASTM D5185m	38	199	191	209
Phosphorus	ppm	ASTM D5185m	1077	1017	790	828
Zinc	ppm	ASTM D5185m	46	78	55	82
Sulfur	ppm	ASTM D5185m	23526	31723	25352	25056
Visc @ 40°C	cSt	ASTM D445	139	157	148	150



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0011099
Lab Number : 06195733
Unique Number : 11057856
Test Package : CONST
Received : 30 May 2024
Tested : 31 May 2024
Diagnosed : 31 May 2024 - Wes Davis

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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)