



ASCENDUM

OIL ANALYSIS REPORT



Area
Ascendum Machinery/500 Hour CSA
Machine Id
VOLVO EC300E 2301 (S/N 317200)
Component
Right Travel
Fluid
VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0000987	ASC0000368	VCP0005738
Sample Date		Client Info		13 Dec 2023	02 Aug 2023	10 May 2023
Machine Age	hrs	Client Info		1500	997	601
Oil Age	hrs	Client Info		503	396	601
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	74	82	231
Chromium	ppm	ASTM D5185m	>20	2	2	4
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>100	2	2	<1
Lead	ppm	ASTM D5185m	>50	0	0	<1
Copper	ppm	ASTM D5185m	>50	0	<1	<1
Tin	ppm	ASTM D5185m	>5	<1	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

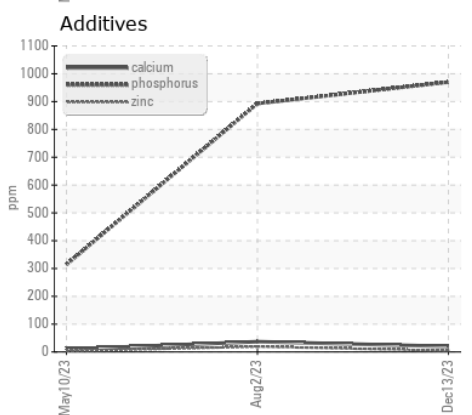
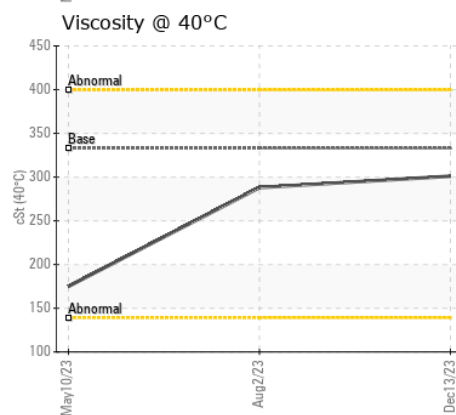
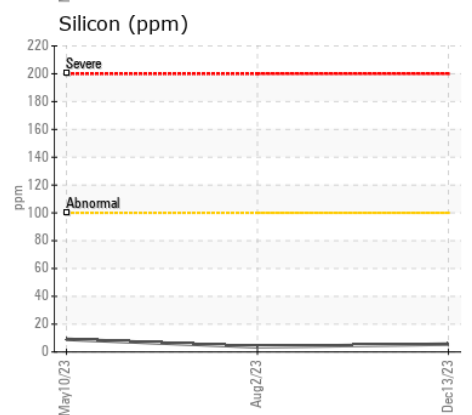
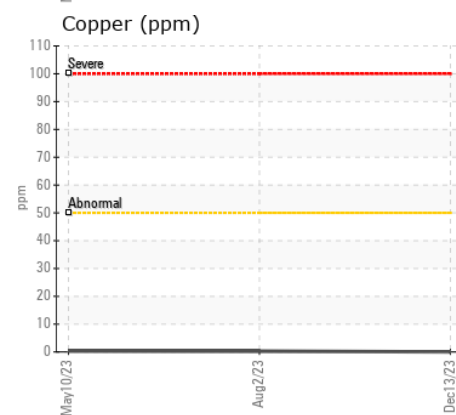
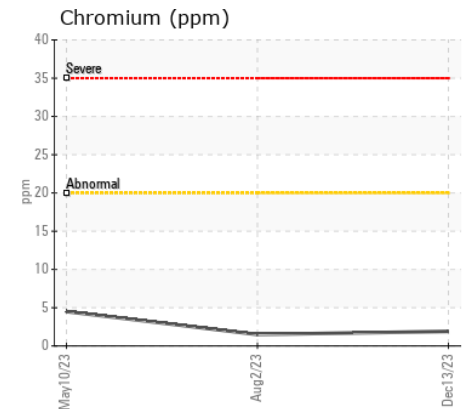
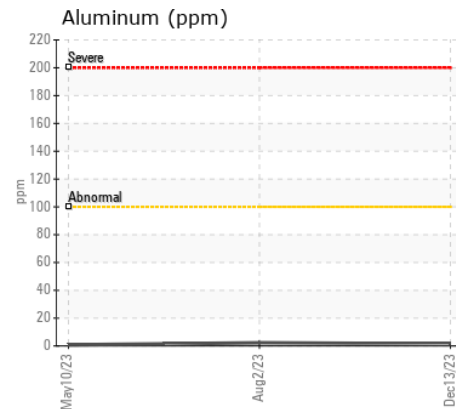
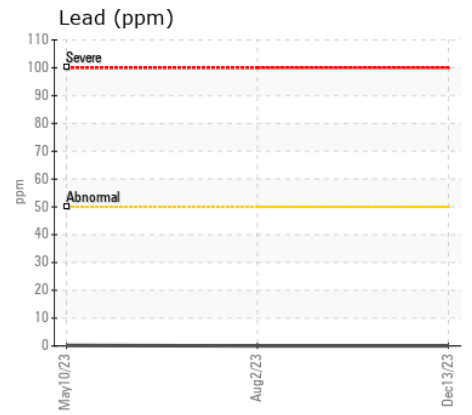
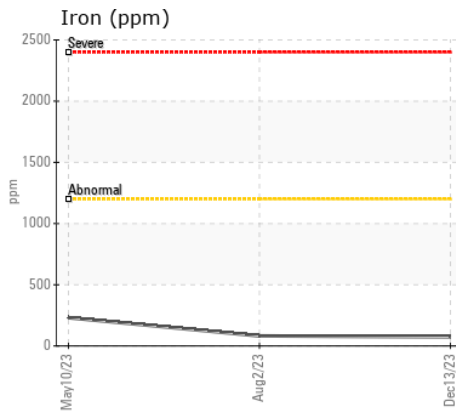
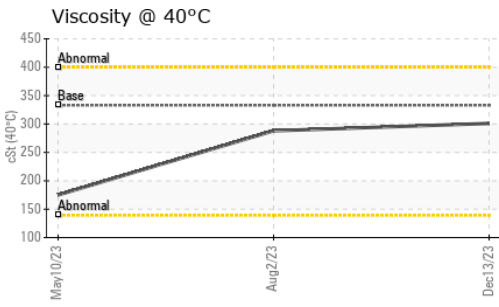
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	6	4	9
Potassium	ppm	ASTM D5185m	>20	<1	2	6
Water		WC Method	>0.25	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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		2	1	3
Boron	ppm	ASTM D5185m	111	144	132	<1
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.9	0	0	<1
Manganese	ppm	ASTM D5185m	0.0	1	1	4
Magnesium	ppm	ASTM D5185m	39	<1	1	<1
Calcium	ppm	ASTM D5185m	93	20	37	10
Phosphorus	ppm	ASTM D5185m	920	970	893	314
Zinc	ppm	ASTM D5185m	104	4	19	3
Sulfur	ppm	ASTM D5185m	20179	26213	25056	17085
Visc @ 40°C	cSt	ASTM D445	333	301	288	175



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0000987 **Received** : 09 Jan 2024
Lab Number : 06055649 **Diagnosed** : 10 Jan 2024
Unique Number : 10821598 **Diagnostician** : Sean Felton
Test Package : MOBCE

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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)