



ASCENDUM

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Ascendum Machinery/500 Hour CSA
Machine Id
VOLVO EC250E 2255 (S/N 316228)
Component
Swing Drive
Fluid
VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0001615	VCP0005800	VCP0005210
Sample Date		Client Info		11 Jan 2024	01 Jun 2023	21 Nov 2022
Machine Age	hrs	Client Info		1405	1112	518
Oil Age	hrs	Client Info		293	594	518
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	Changed	Changed
Filter Changed		Client Info		None	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	59	279	288
Chromium	ppm	ASTM D5185m	>10	<1	5	5
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	1	1
Lead	ppm	ASTM D5185m	>50	0	0	<1
Copper	ppm	ASTM D5185m	>50	5	13	12
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

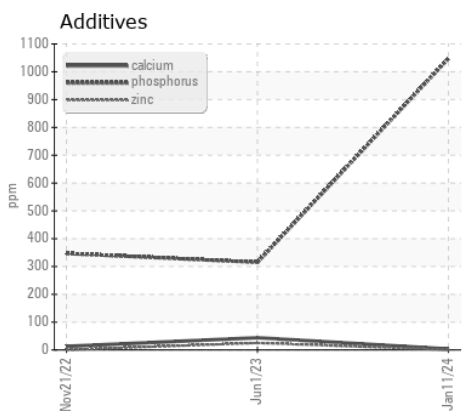
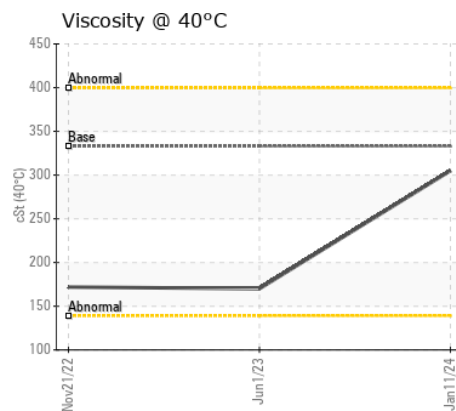
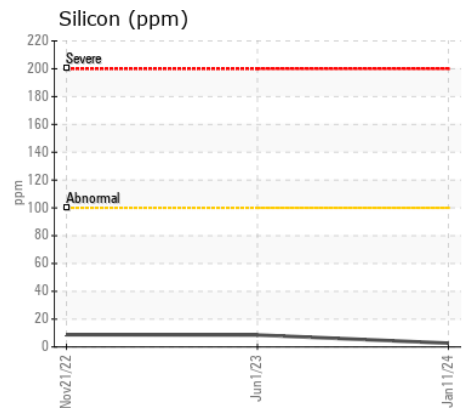
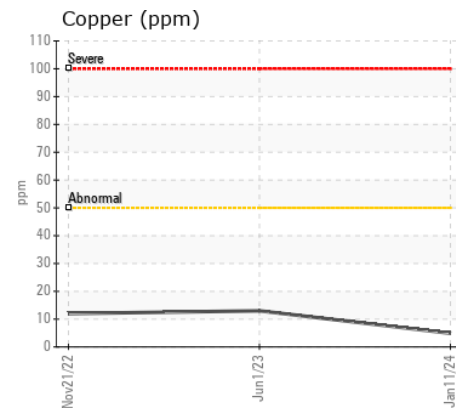
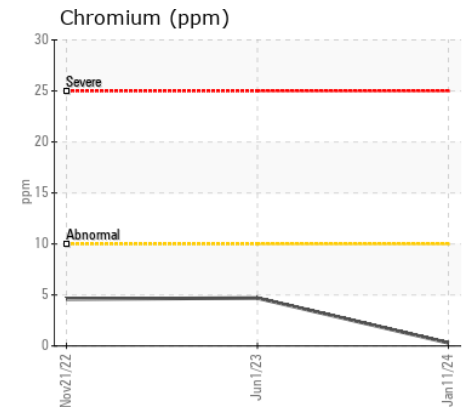
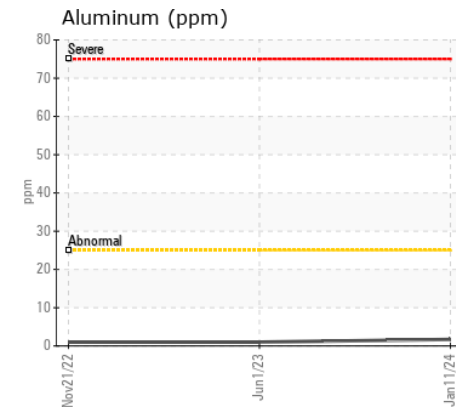
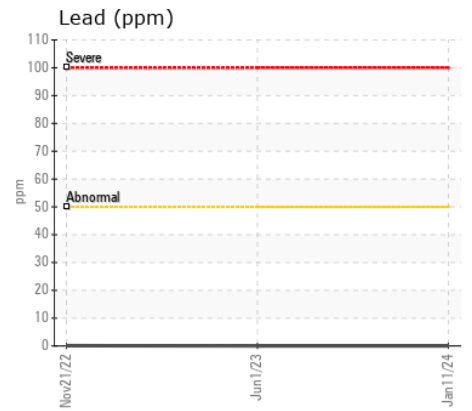
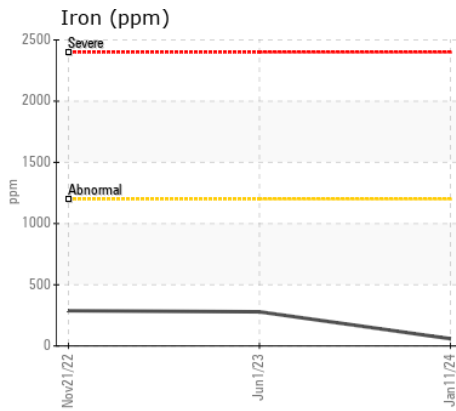
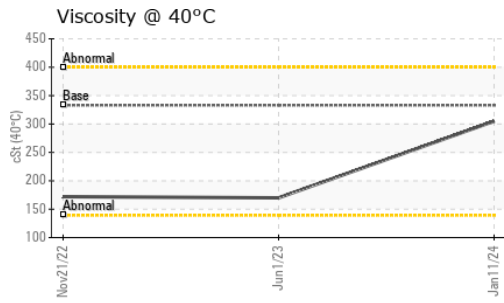
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>100	3	9	9
Potassium	ppm	ASTM D5185m	>20	<1	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 fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		0	<1	2
Boron	ppm	ASTM D5185m	111	183	0	1
Barium	ppm	ASTM D5185m	0.0	4	0	0
Molybdenum	ppm	ASTM D5185m	0.9	0	<1	<1
Manganese	ppm	ASTM D5185m	0.0	<1	5	5
Magnesium	ppm	ASTM D5185m	39	0	<1	0
Calcium	ppm	ASTM D5185m	93	3	44	13
Phosphorus	ppm	ASTM D5185m	920	1047	315	347
Zinc	ppm	ASTM D5185m	104	0	25	0
Sulfur	ppm	ASTM D5185m	20179	34365	16955	18421
Visc @ 40°C	cSt	ASTM D445	333	305	170	172



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0001615 **Received** : 17 Jan 2024
Lab Number : 06063197 **Diagnosed** : 19 Jan 2024
Unique Number : 10834579 **Diagnostician** : Don Baldrige
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)