



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
Hydraulic System
Fluid
VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment:
Top Up Amount: 4)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0001608	VCP0005206	---
Sample Date		Client Info		11 Jan 2024	21 Nov 2022	---
Machine Age	hrs	Client Info		1405	518	---
Oil Age	hrs	Client Info		1405	518	---
Filter Age	hrs	Client Info		0	518	---
Oil Changed		Client Info		Oil Added	Not Changd	---
Filter Changed		Client Info		Not Changd	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>25	4	4	---
Chromium	ppm	ASTM D5185m	>10	<1	<1	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>20	1	<1	---
Lead	ppm	ASTM D5185m	>20	0	<1	---
Copper	ppm	ASTM D5185m	>150	11	8	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

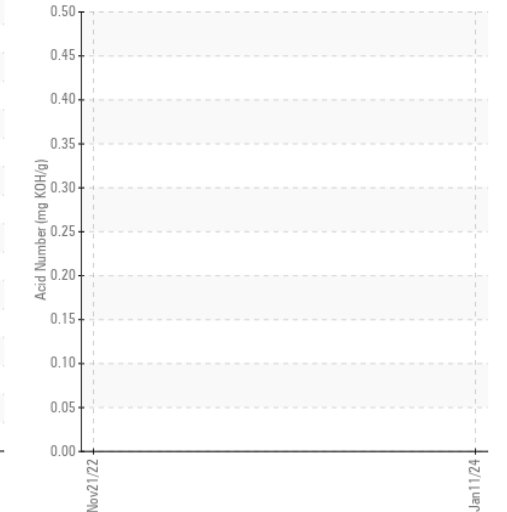
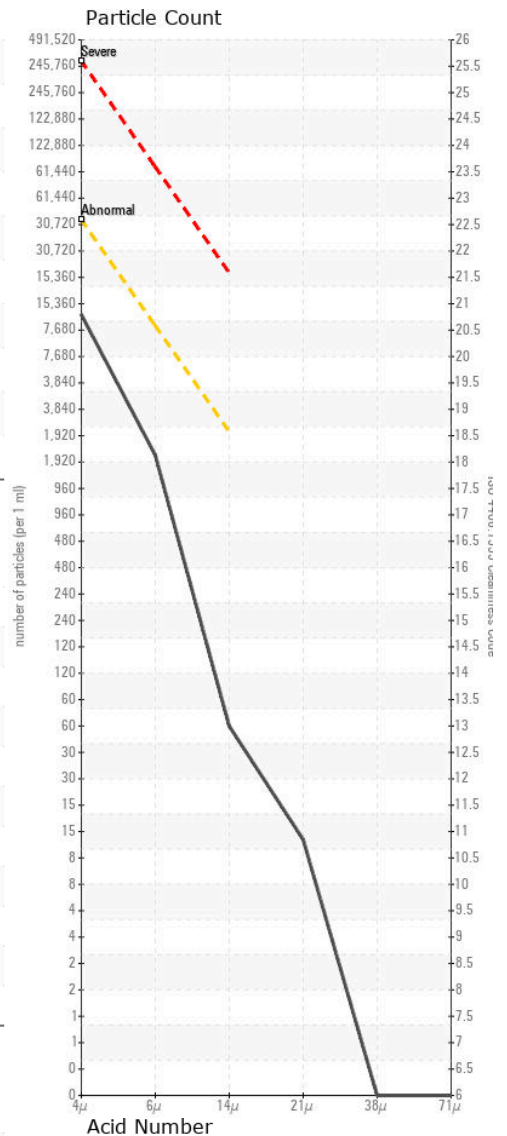
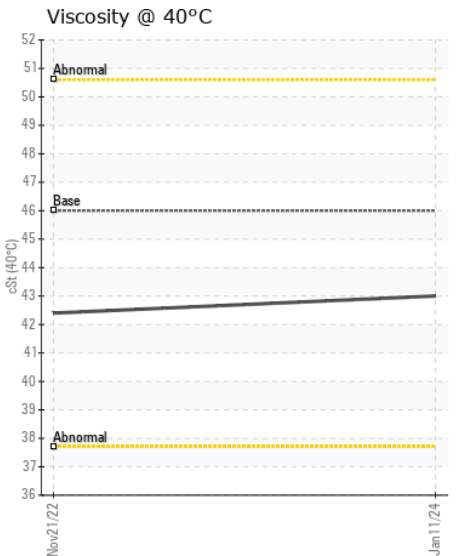
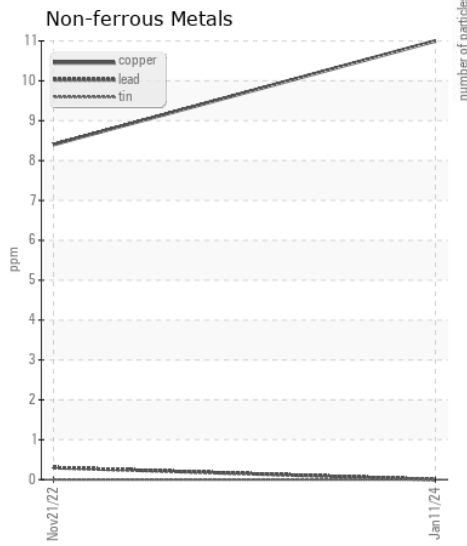
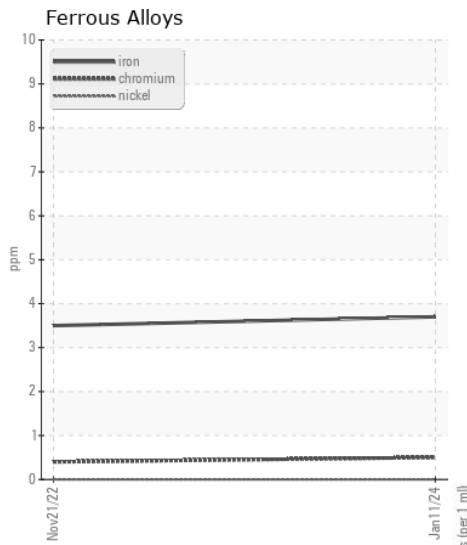
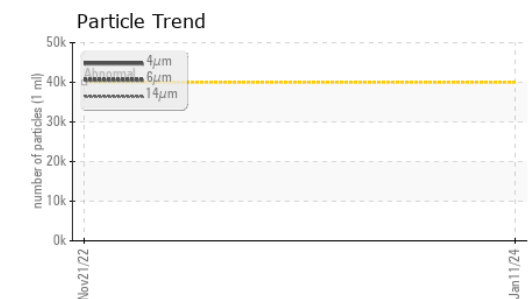
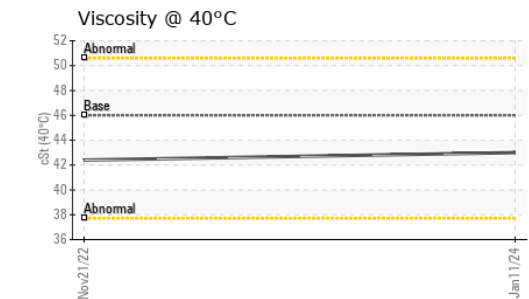
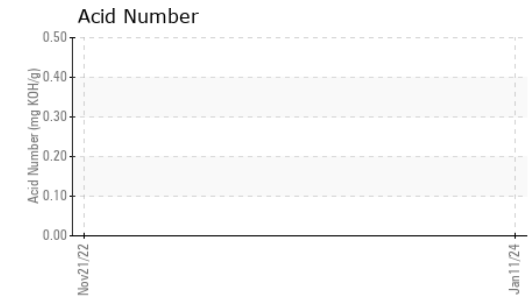
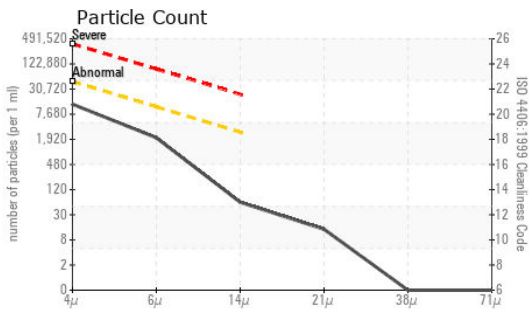
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>50	4	4	---
Potassium	ppm	ASTM D5185m	>20	1	0	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>40000	11580	---	---
Particles >6µm		ASTM D7647	>10000	1839	---	---
Particles >14µm		ASTM D7647	>2500	53	---	---
Particles >21µm		ASTM D7647	>640	12	---	---
Particles >38µm		ASTM D7647	>160	0	---	---
Particles >71µm		ASTM D7647	>40	0	---	---
Oil Cleanliness		ISO 4406 (c)	>22/20/18	21/18/13	---	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<1	<1	---
Boron	ppm	ASTM D5185m	14	6	<1	---
Barium	ppm	ASTM D5185m	0.0	0	0	---
Molybdenum	ppm	ASTM D5185m	0.0	<1	<1	---
Manganese	ppm	ASTM D5185m	0.0	0	0	---
Magnesium	ppm	ASTM D5185m	2.6	17	17	---
Calcium	ppm	ASTM D5185m	49	353	146	---
Phosphorus	ppm	ASTM D5185m	354	460	432	---
Zinc	ppm	ASTM D5185m	419	568	543	---
Sulfur	ppm	ASTM D5185m	3719	1451	1252	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.49	---	---
Visc @ 40°C	cSt	ASTM D445	46	43.0	42.4	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0001608 **Received** : 17 Jan 2024
Lab Number : 06062573 **Diagnosed** : 19 Jan 2024
Unique Number : 10833955 **Diagnostician** : Jonathan Hester
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)