



ASCENDUM

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
[SCM]
Machine Id
VOLVO EC250E 314064
Component
Right Final Drive
Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0011188	ASC0006426	VCP391469
Sample Date		Client Info		29 Jun 2024	14 Dec 2023	25 May 2023
Machine Age	hrs	Client Info		4554	3507	2024
Oil Age	hrs	Client Info		500	1483	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

Gear wear is indicated. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	▲ 1085	▲ 698	▲ 1047
Chromium	ppm	ASTM D5185m	>10	▲ 12	6	▲ 11
Nickel	ppm	ASTM D5185m	>10	<1	<1	1
Titanium	ppm	ASTM D5185m		1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	● 15	2	4
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	<1	2	1
Tin	ppm	ASTM D5185m	>10	0	<1	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

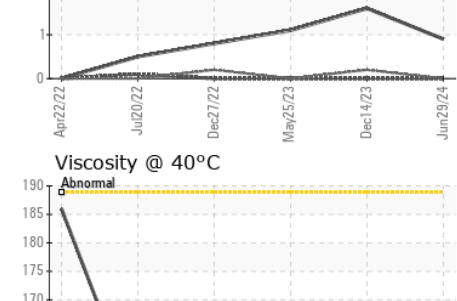
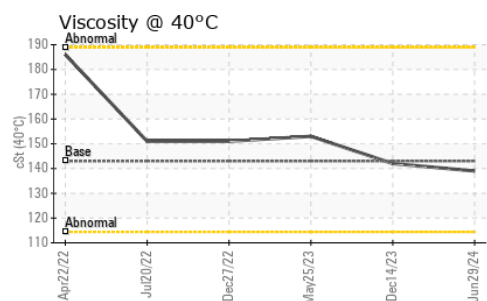
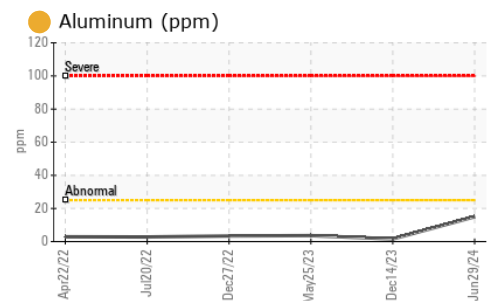
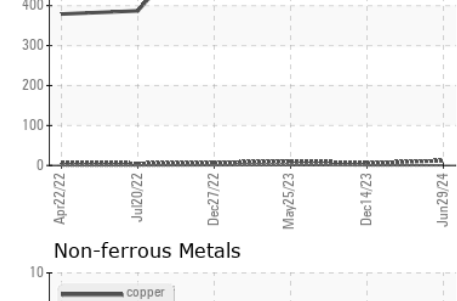
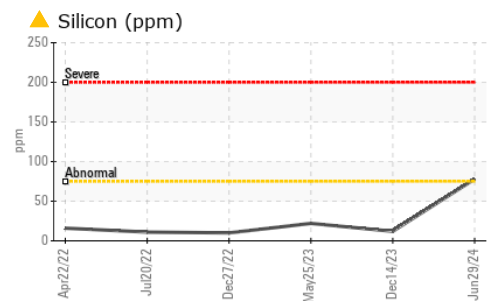
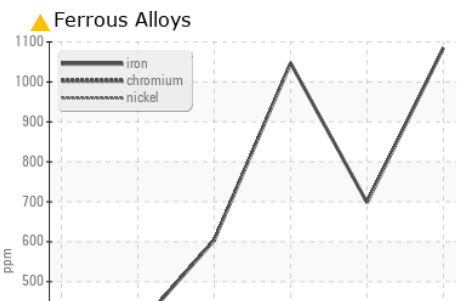
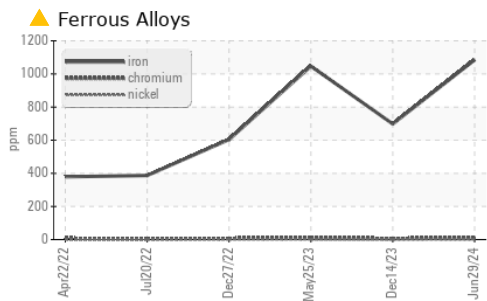
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 78	12	22
Potassium	ppm	ASTM D5185m	>20	5	1	3
Water		WC Method	>0.2	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	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>170	0	<1	2
Boron	ppm	ASTM D5185m	400	147	91	6
Barium	ppm	ASTM D5185m	200	0	0	0
Molybdenum	ppm	ASTM D5185m	12	1	0	2
Manganese	ppm	ASTM D5185m		9	5	8
Magnesium	ppm	ASTM D5185m	12	0	0	3
Calcium	ppm	ASTM D5185m	150	0	16	12
Phosphorus	ppm	ASTM D5185m	1650	1042	962	541
Zinc	ppm	ASTM D5185m	125	6	8	25
Sulfur	ppm	ASTM D5185m	22500	26249	25604	18690
Visc @ 40°C	cSt	ASTM D445	143	139	142	153



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0011188 **Received** : 02 Jul 2024
Lab Number : 06226640 **Tested** : 03 Jul 2024
Unique Number : 11110133 **Diagnosed** : 05 Jul 2024 - Don Baldrige
Test Package : CONST

113 - ASCENDUM MACHINERY INC - GARNER
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 GARNER, NC
 US 27529
 Contact: TRENT BROADWELL
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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)