



ASCENDUM

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



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

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0011147	ASC0006497	VCP391471
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		1000	1483	0
Filter Age	hrs	Client Info		1000	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	451	631	▲ 1282
Chromium	ppm	ASTM D5185m	>10	5	7	▲ 17
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	2	5
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>50	23	25	60
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

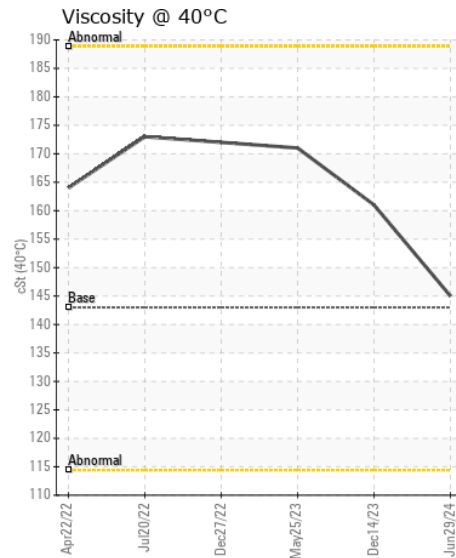
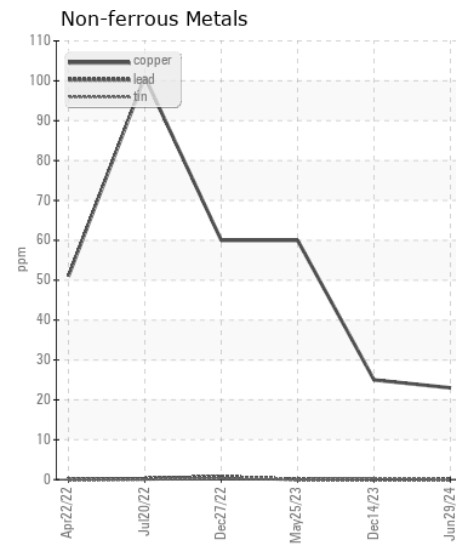
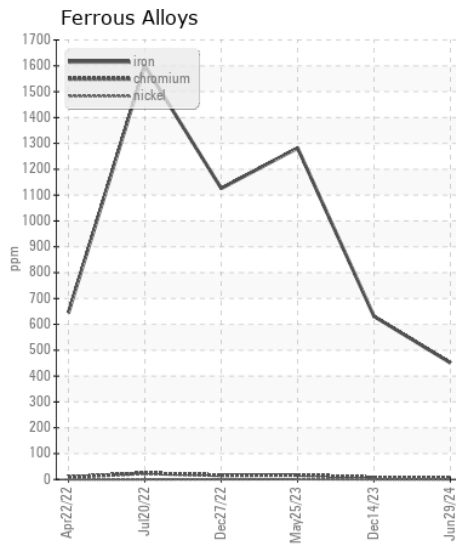
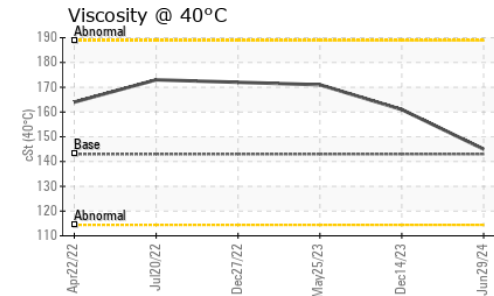
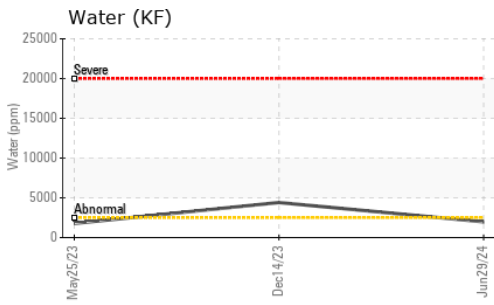
The water content is negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	7	11	21
Potassium	ppm	ASTM D5185m	>20	1	<1	2
Water	%	ASTM D6304	>0.25	0.198	▲ 0.441	0.178
ppm Water	ppm	ASTM D6304	>2500	1980	▲ 4410	1780
Silt	scalar	*Visual	NONE	NONE	MODER	MODER
Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODER
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	0.2%	▲ 0.2%	0.2%

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	73	3	4
Barium	ppm	ASTM D5185m	200	0	0	0
Molybdenum	ppm	ASTM D5185m	12	<1	0	2
Manganese	ppm	ASTM D5185m		6	7	16
Magnesium	ppm	ASTM D5185m	12	0	0	3
Calcium	ppm	ASTM D5185m	150	0	5	11
Phosphorus	ppm	ASTM D5185m	1650	1003	294	391
Zinc	ppm	ASTM D5185m	125	35	27	68
Sulfur	ppm	ASTM D5185m	22500	25606	15116	14042
Visc @ 40°C	cSt	ASTM D445	143	145	161	171



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : ASC0011147

Lab Number : 06226621

Unique Number : 11110114

Test Package : CONST (Additional Tests: KF)

Received : 02 Jul 2024

Tested : 03 Jul 2024

Diagnosed : 03 Jul 2024 - Wes Davis

113 - ASCENDUM MACHINERY INC - GARNER

3561 JONES SAUSAGE ROAD

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)