



ASCENDUM

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

Ascendum Machinery/500 Hour CSA

Machine Id

VOLVO EC250E 2053 (S/N 250E310593)

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		ASC0011359	VCP408814	VCP383019
Sample Date		Client Info		14 May 2024	01 Jun 2023	21 Feb 2023
Machine Age	hrs	Client Info		4996	4996	4531
Oil Age	hrs	Client Info		4996	453	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		N/A	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	88	305	332
Chromium	ppm	ASTM D5185m	>10	<1	4	3
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	2	1
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>50	2	8	7
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

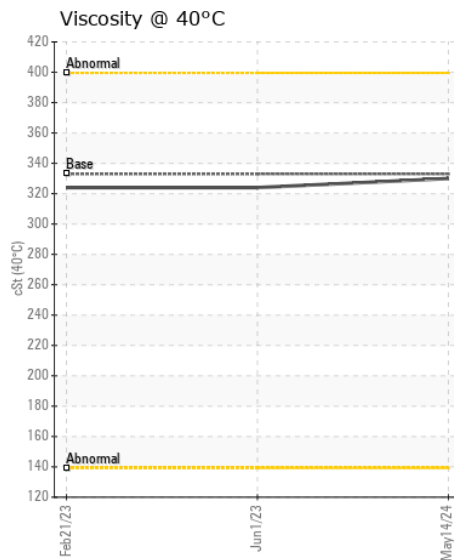
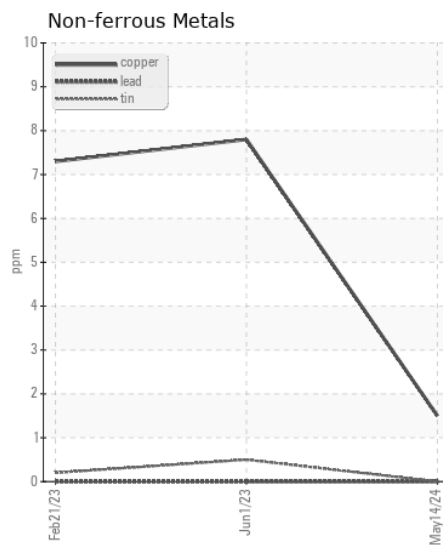
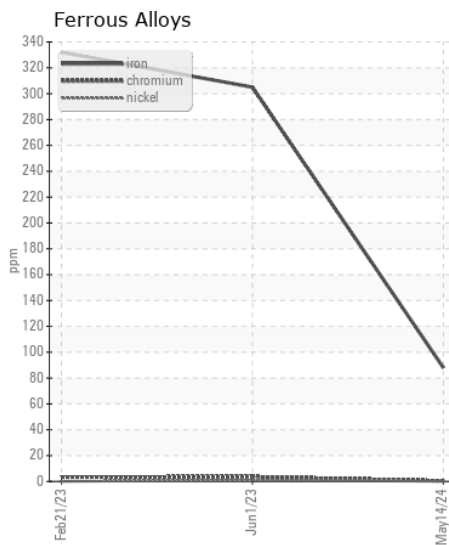
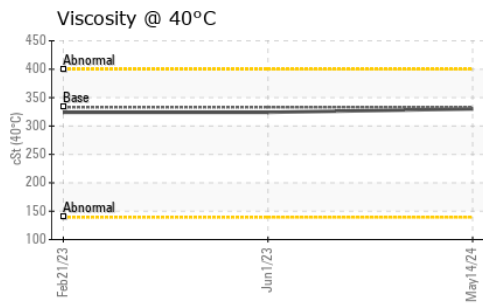
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	2	7	7
Potassium	ppm	ASTM D5185m	>20	0	2	1
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 oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		0	<1	0
Boron	ppm	ASTM D5185m	111	217	135	104
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.9	0	<1	<1
Manganese	ppm	ASTM D5185m	0.0	<1	4	4
Magnesium	ppm	ASTM D5185m	39	0	2	4
Calcium	ppm	ASTM D5185m	93	54	30	21
Phosphorus	ppm	ASTM D5185m	920	1118	1080	920
Zinc	ppm	ASTM D5185m	104	14	28	31
Sulfur	ppm	ASTM D5185m	20179	35746	37775	25056
Visc @ 40°C	cSt	ASTM D445	333	330	324	324



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0011359 **Received** : 29 May 2024
Lab Number : 06194341 **Tested** : 31 May 2024
Unique Number : 11056464 **Diagnosed** : 31 May 2024 - Angela Borella
Test Package : CONST

G S MATERIALS INC
 PO BOX 1335
 BURLINGTON, NC
 US 27216

Contact: KAREN NEWPORT
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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)