



WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
SEVERE
NORMAL

Area

Ascendum Machinery

Machine Id

VOLVO EC380E 310244

Component

Left Travel

Fluid

VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (2 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. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0008247	ASC0000760	VCP0005308
Sample Date		Client Info		16 Jul 2024	20 Sep 2023	16 Dec 2022
Machine Age	hrs	Client Info		15015	14040	13005
Oil Age	hrs	Client Info		975	1035	786
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	1191	▲ 1941	▲ 2114
Chromium	ppm	ASTM D5185m	>20	11	16	▲ 21
Nickel	ppm	ASTM D5185m	>5	0	2	3
Titanium	ppm	ASTM D5185m		5	9	8
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>100	● 64	● 119	● 127
Lead	ppm	ASTM D5185m	>50	0	<1	<1
Copper	ppm	ASTM D5185m	>50	2	4	4
Tin	ppm	ASTM D5185m	>5	0	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

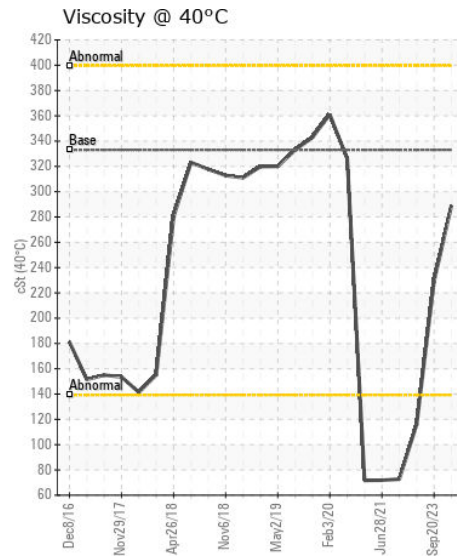
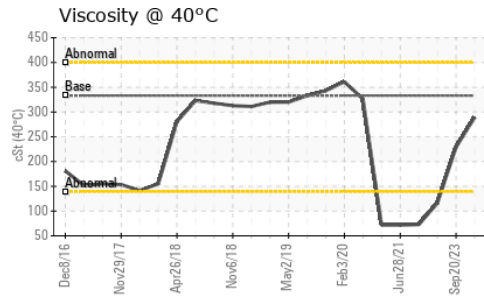
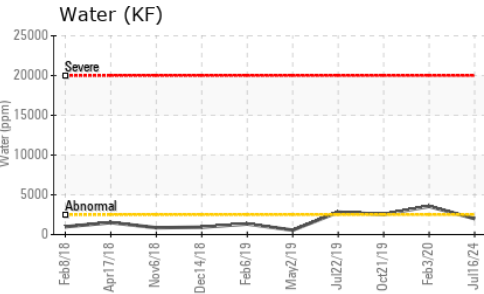
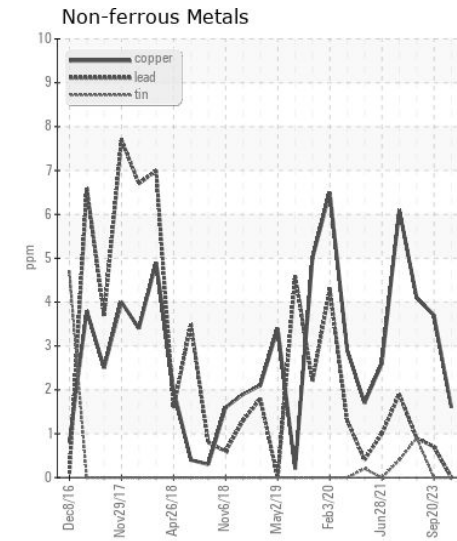
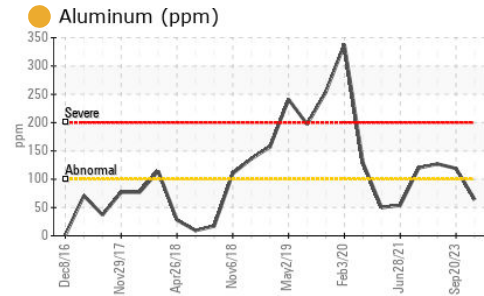
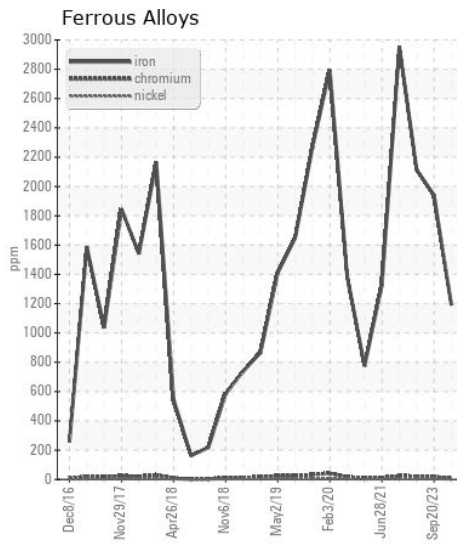
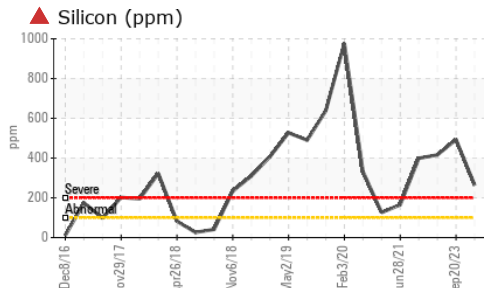
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>100	▲ 264	▲ 493	▲ 416
Potassium	ppm	ASTM D5185m	>20	13	26	23
Water	%	ASTM D6304	>0.25	0.200	---	---
ppm Water	ppm	ASTM D6304	>2500	2000	---	---
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	0.2%	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		10	16	16
Boron	ppm	ASTM D5185m	111	158	186	178
Barium	ppm	ASTM D5185m	0.0	0	2	0
Molybdenum	ppm	ASTM D5185m	0.9	<1	2	3
Manganese	ppm	ASTM D5185m	0.0	9	16	17
Magnesium	ppm	ASTM D5185m	39	20	45	43
Calcium	ppm	ASTM D5185m	93	137	221	207
Phosphorus	ppm	ASTM D5185m	920	1079	1126	1200
Zinc	ppm	ASTM D5185m	104	0	12	9
Sulfur	ppm	ASTM D5185m	20179	31936	31877	25056
Visc @ 40°C	cSt	ASTM D445	333	289	229	● 116



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0008247
Lab Number : 06240789
Unique Number : 11129623
Test Package : CONST (Additional Tests: KF)

METAL RECYCLING SERVICES - MONROE
 P.O. BOX 812
 MONROE, NC
 US 28111
 Contact: RYAN BOWDEN

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)

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 F: (704)238-0755