



ASCENDUM

OIL ANALYSIS REPORT



Area
Ascendum Machinery
 Machine Id
VOLVO EC380E 314421
 Component
Right Travel
 Fluid
VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0001508	VCP0005196	---
Sample Date		Client Info		10 Jan 2024	28 Nov 2022	---
Machine Age	hrs	Client Info		2446	1731	---
Oil Age	hrs	Client Info		715	1731	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>1200	▲ 1172	973	---
Chromium	ppm	ASTM D5185m	>20	16	13	---
Nickel	ppm	ASTM D5185m	>5	1	0	---
Titanium	ppm	ASTM D5185m		4	4	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>100	▲ 23	▲ 20	---
Lead	ppm	ASTM D5185m	>50	<1	0	---
Copper	ppm	ASTM D5185m	>50	3	2	---
Tin	ppm	ASTM D5185m	>5	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	MODER	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

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

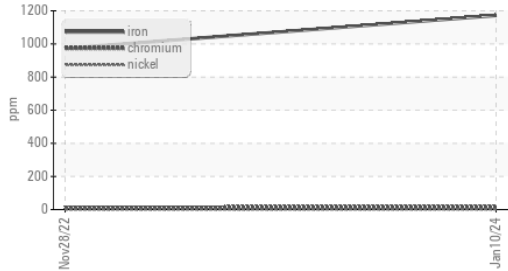
Silicon	ppm	ASTM D5185m	>100	▲ 212	▲ 187	---
Potassium	ppm	ASTM D5185m	>20	7	4	---
Water		WC Method	>0.25	NEG	NEG	---
Silt	scalar	*Visual	NONE	MODER	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.25	NEG	NEG	---

FLUID CONDITION

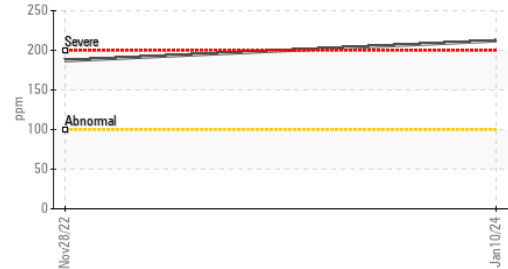
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		0	3	---
Boron	ppm	ASTM D5185m	111	146	0	---
Barium	ppm	ASTM D5185m	0.0	4	1	---
Molybdenum	ppm	ASTM D5185m	0.9	2	1	---
Manganese	ppm	ASTM D5185m	0.0	10	8	---
Magnesium	ppm	ASTM D5185m	39	5	2	---
Calcium	ppm	ASTM D5185m	93	60	48	---
Phosphorus	ppm	ASTM D5185m	920	894	290	---
Zinc	ppm	ASTM D5185m	104	6	14	---
Sulfur	ppm	ASTM D5185m	20179	27346	14915	---
Visc @ 40°C	cSt	ASTM D445	333	281	180	---

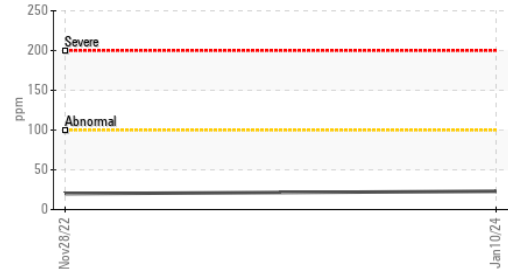
▲ Ferrous Alloys



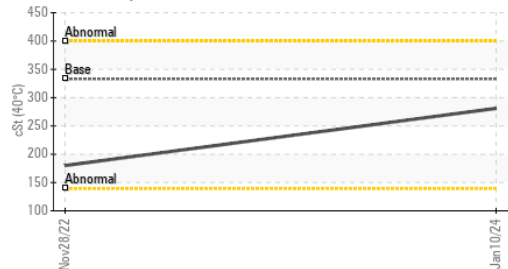
▲ Silicon (ppm)



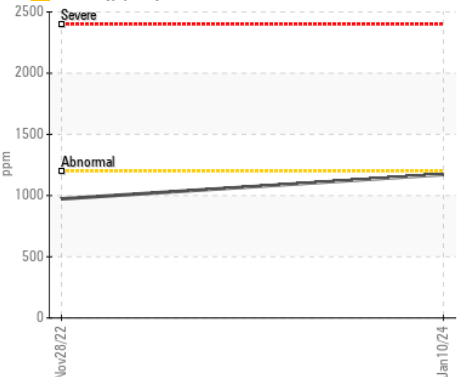
▲ Aluminum (ppm)



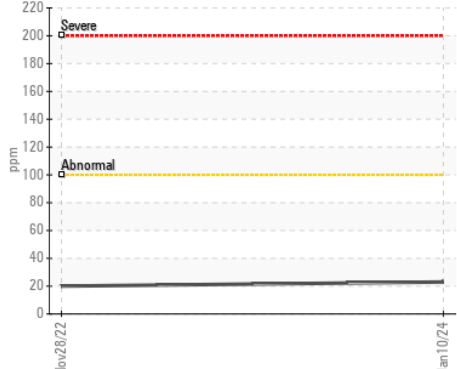
Viscosity @ 40°C



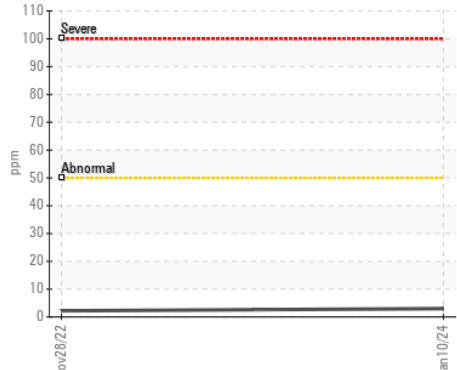
▲ Iron (ppm)



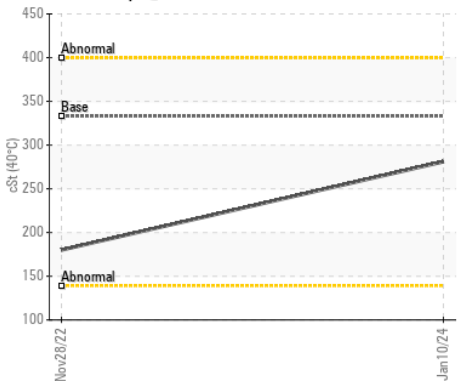
▲ Aluminum (ppm)



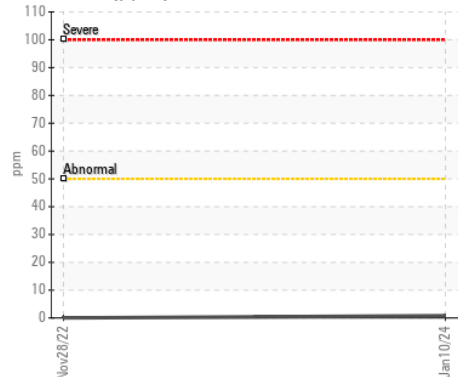
Copper (ppm)



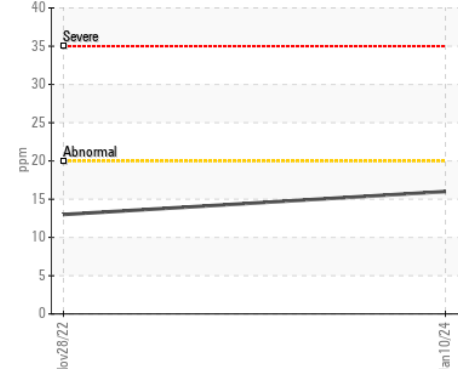
Viscosity @ 40°C



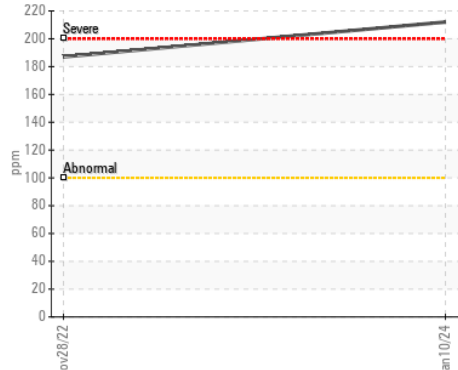
Lead (ppm)



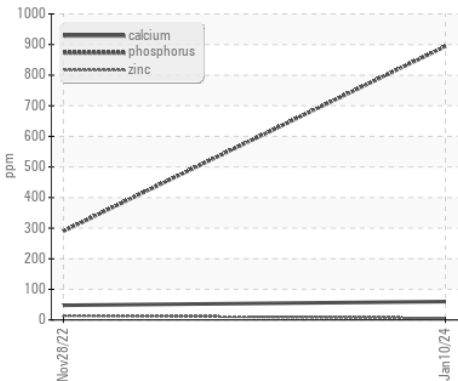
Chromium (ppm)



▲ Silicon (ppm)



Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0001508 **Received** : 12 Jan 2024
Lab Number : 06059706 **Diagnosed** : 16 Jan 2024
Unique Number : 10831088 **Diagnostician** : Don Baldridge
Test Package : MOBCE

ENVIRONMENTAL HOLDINGS GROUP LLC
 4000 TRIANGLE LANE SUITE 160
 EXPORT, PA
 US 15632
 Contact: Service Manager

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)

T:
F: