



ASCENDUM

OIL ANALYSIS REPORT



Area
[21289 JUNK CAR MAFIA]
Machine Id
VOLVO EC160EL 314749
Component
Swing Drive
Fluid
VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- QTS)

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0006436	ASC0006440	---
Sample Date		Client Info		28 Feb 2024	15 Feb 2024	---
Machine Age	hrs	Client Info		603	547	---
Oil Age	hrs	Client Info		0	547	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changed	Changed	---
Filter Changed		Client Info		Not Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	15	129	---
Chromium	ppm	ASTM D5185m	>10	0	2	---
Nickel	ppm	ASTM D5185m	>10	<1	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	<1	4	---
Lead	ppm	ASTM D5185m	>50	0	2	---
Copper	ppm	ASTM D5185m	>50	11	▲ 120	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

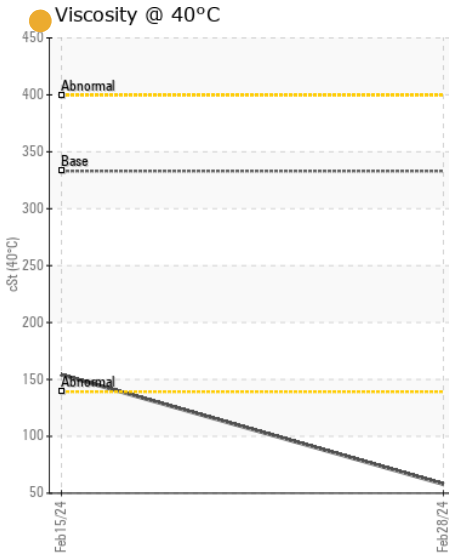
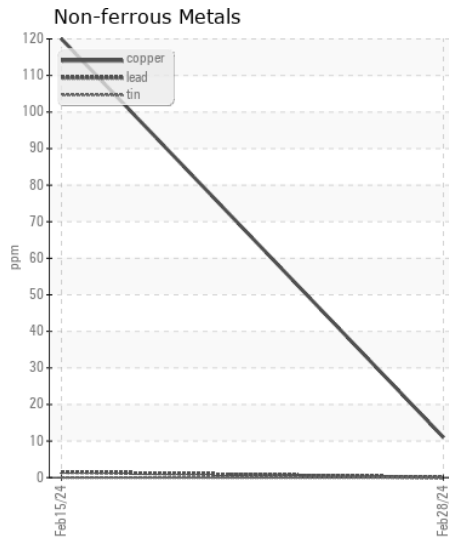
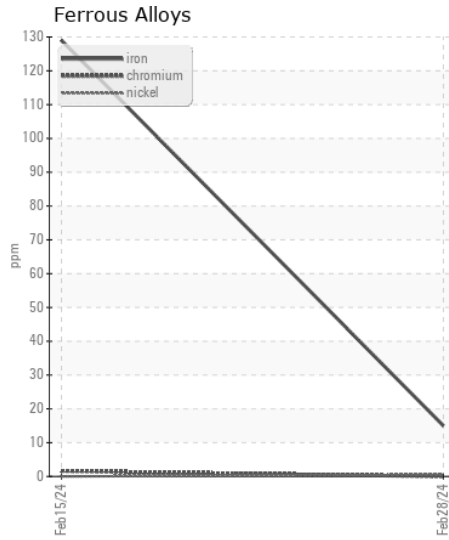
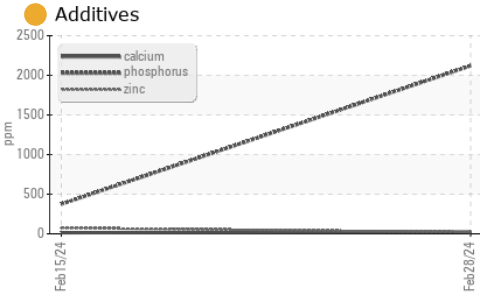
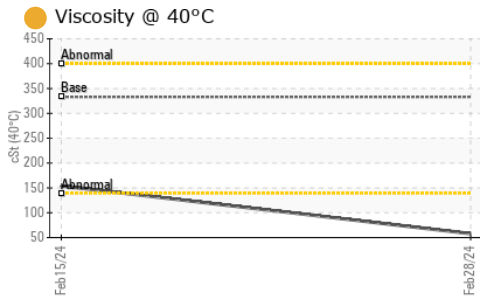
Moderate concentration of visible dirt/debris present in the oil.

Silicon	ppm	ASTM D5185m	>100	4	29	---
Potassium	ppm	ASTM D5185m	>20	1	2	---
Water		WC Method	>0.25	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	▲ MODER	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 oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		3	1	---
Boron	ppm	ASTM D5185m	111	● 260	0	---
Barium	ppm	ASTM D5185m	0.0	0	3	---
Molybdenum	ppm	ASTM D5185m	0.9	0	0	---
Manganese	ppm	ASTM D5185m	0.0	<1	5	---
Magnesium	ppm	ASTM D5185m	39	1	0	---
Calcium	ppm	ASTM D5185m	93	● 26	14	---
Phosphorus	ppm	ASTM D5185m	920	● 2121	374	---
Zinc	ppm	ASTM D5185m	104	● 20	74	---
Sulfur	ppm	ASTM D5185m	20179	25353	17874	---
Visc @ 40°C	cSt	ASTM D445	333	● 57.9	154	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0006436
Lab Number : 06106481
Unique Number : 10909978
Test Package : CONST

Received : 01 Mar 2024
Tested : 04 Mar 2024
Diagnosed : 05 Mar 2024 - Jonathan Hester

520 - ASCENDUM MACHINERY INC - KNOXVILLE
 5730 RUTLEDGE PIKE
 KNOXVILLE, TN
 US 37924

Contact: BRANDON GRANT
 brandon.grant@ascendummachinery.com

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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