



ASCENDUM

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO EC480 311086
Component
Left Final 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		ASC0009497	ASC0010015	ASC0008902
Sample Date		Client Info		17 Jul 2024	19 Apr 2024	06 Feb 2024
Machine Age	hrs	Client Info		10571	10181	9919
Oil Age	hrs	Client Info		500	500	600
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	Not Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>3360	856	531	138
Chromium	ppm	ASTM D5185m	>35	13	11	<1
Nickel	ppm	ASTM D5185m	>8	<1	0	0
Titanium	ppm	ASTM D5185m	>15	2	2	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>185	30	31	4
Lead	ppm	ASTM D5185m	>5	0	0	0
Copper	ppm	ASTM D5185m	>80	3	1	0
Tin	ppm	ASTM D5185m	>8	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

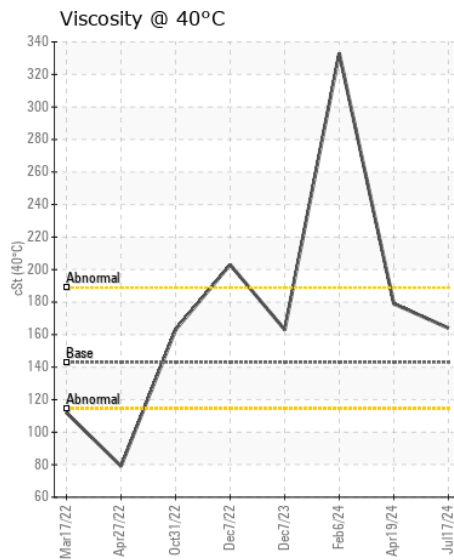
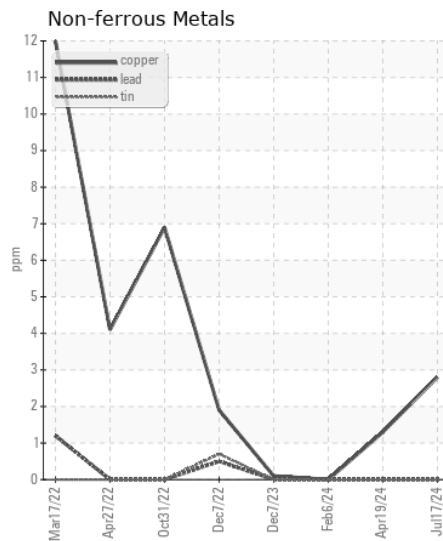
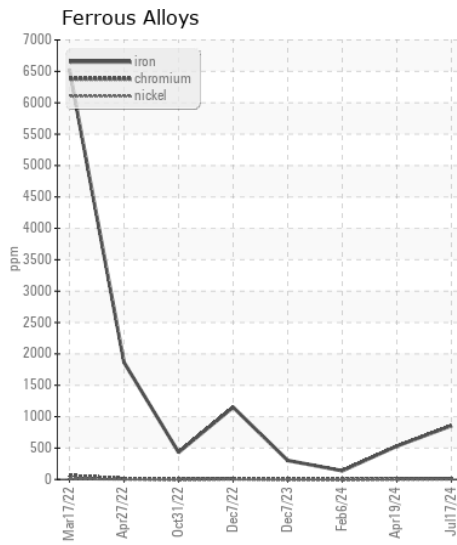
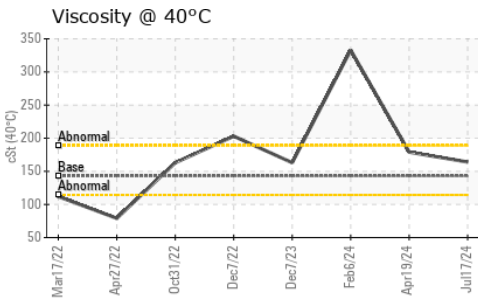
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>1100	165	159	37
Potassium	ppm	ASTM D5185m	>20	5	4	0
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	MODER	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	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>170	3	4	0
Boron	ppm	ASTM D5185m	400	157	167	225
Barium	ppm	ASTM D5185m	200	0	3	0
Molybdenum	ppm	ASTM D5185m	12	1	<1	0
Manganese	ppm	ASTM D5185m		8	6	<1
Magnesium	ppm	ASTM D5185m	12	3	2	0
Calcium	ppm	ASTM D5185m	150	0	19	25
Phosphorus	ppm	ASTM D5185m	1650	872	1016	1014
Zinc	ppm	ASTM D5185m	125	56	37	0
Sulfur	ppm	ASTM D5185m	22500	23335	32271	30022
Visc @ 40°C	cSt	ASTM D445	143	164	179	333



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0009497
Lab Number : 06240696
Unique Number : 11129530
Test Package : CONST
Received : 18 Jul 2024
Tested : 19 Jul 2024
Diagnosed : 19 Jul 2024 - Wes Davis

HANSON SOUTHEAST
 NC HWY 117
 ERWIN, NC
 US 28339
 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)

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