



VOLVO

OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
ABNORMAL
NORMAL



Area
[W02006708]
Machine Id
VOLVO EC350 314263
Component
Rear Left Final Drive
Fluid
MOBIL MOBILUBE HD 85W140 (--- 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. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP390775	VCP361929	VCP319134
Sample Date		Client Info		24 Jan 2023	04 Aug 2022	03 Nov 2021
Machine Age	hrs	Client Info		1954	1447	536
Oil Age	hrs	Client Info		500	500	536
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				ABNORMAL	SEVERE	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	335	▲ 1481	118
Chromium	ppm	ASTM D5185m	>10	6	▲ 17	4
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		6	16	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	▲ 61	▲ 120	<1
Lead	ppm	ASTM D5185m	>25	0	<1	0
Copper	ppm	ASTM D5185m	>50	<1	3	<1
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	MODER	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

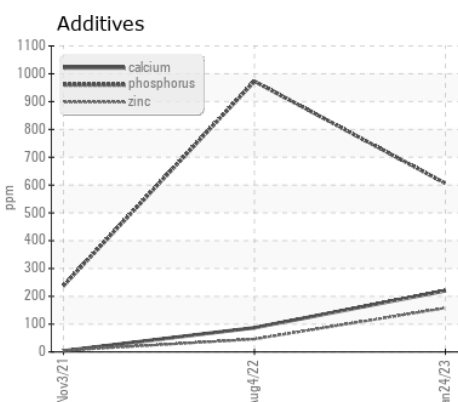
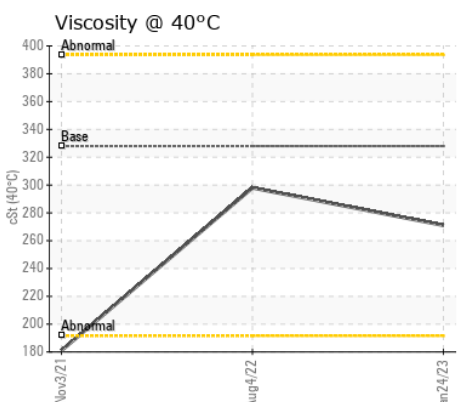
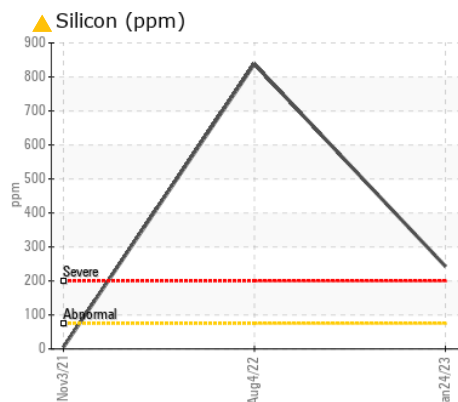
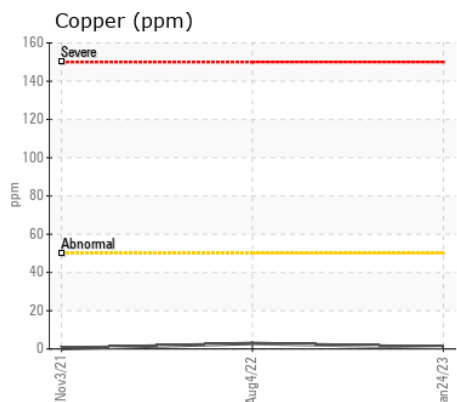
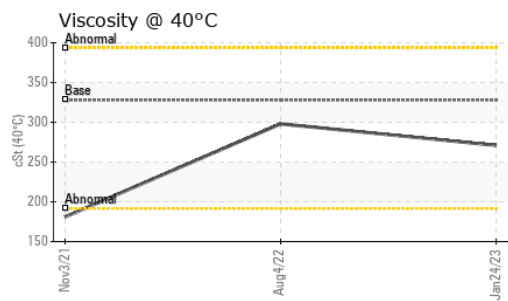
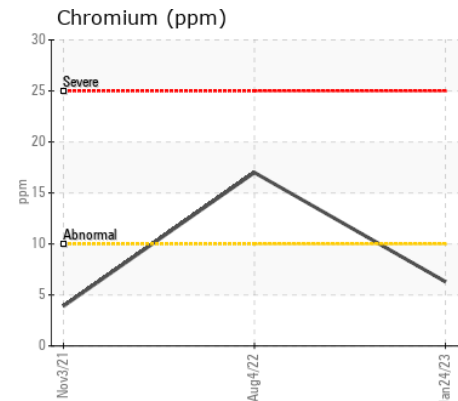
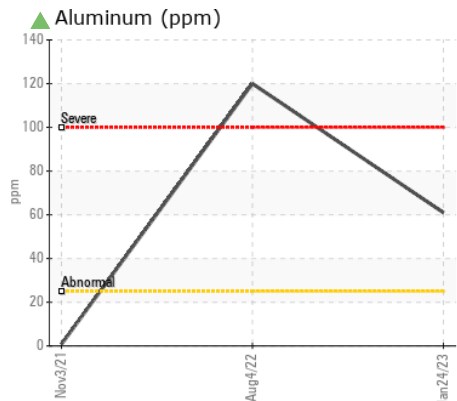
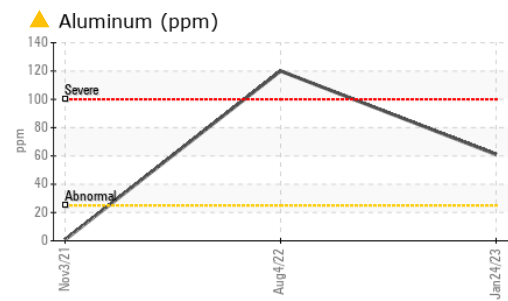
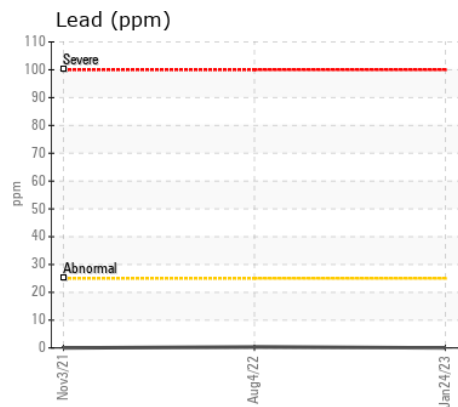
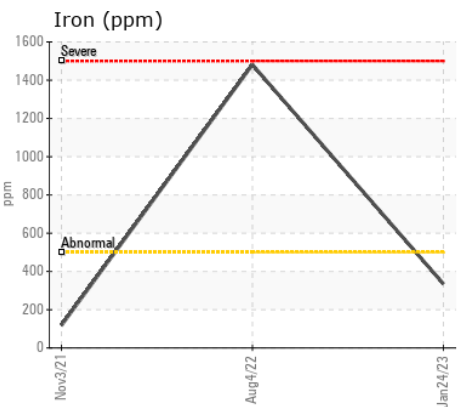
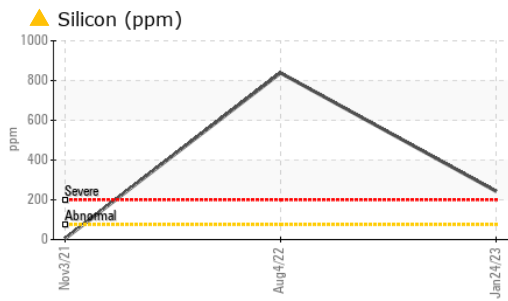
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 243	● 838	5
Potassium	ppm	ASTM D5185m	>20	12	33	9
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		2	10	1
Boron	ppm	ASTM D5185m		69	204	13
Barium	ppm	ASTM D5185m		0	<1	7
Molybdenum	ppm	ASTM D5185m		8	4	0
Manganese	ppm	ASTM D5185m		3	12	3
Magnesium	ppm	ASTM D5185m		74	23	1
Calcium	ppm	ASTM D5185m		220	87	4
Phosphorus	ppm	ASTM D5185m		606	973	238
Zinc	ppm	ASTM D5185m		158	46	5
Sulfur	ppm	ASTM D5185m		25077	19126	17055
Visc @ 40°C	cSt	ASTM D445	328	271	298	181



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP390775 **Received** : 31 Jan 2023
Lab Number : 05755273 **Diagnosed** : 01 Feb 2023
Unique Number : 10319880 **Diagnostician** : Don Baldridge
Test Package : MOB 1

MCCLEUNG-LOGAN EQUIPMENT CO - MANASSAS
 8450 QUARRY ROAD
 MANASSAS, VA
 US 20110
 Contact: MIKE MAYHUGH
 MMAYHUGH@MCCLEUNG-LOGAN.COM
 T: (703)393-7344
 F: (703)393-7844

Certificate L2367
 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)