



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[A11995]
Machine Id
VOLVO EC220DL 210516
Component
Swing Drive
Fluid
MOBIL MOBILUBE HD 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP442294	VCP430643	VCP399922
Sample Date		Client Info		27 Jan 2024	20 Oct 2023	07 Mar 2023
Machine Age	hrs	Client Info		18920	18596	17930
Oil Age	hrs	Client Info		1000	18596	1000
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Not Changed	Not Changed	Not Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	44	29	113
Chromium	ppm	ASTM D5185m	>10	0	<1	1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	<1	2
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>50	3	3	9
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

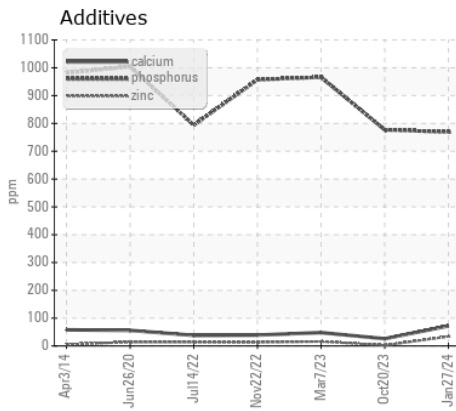
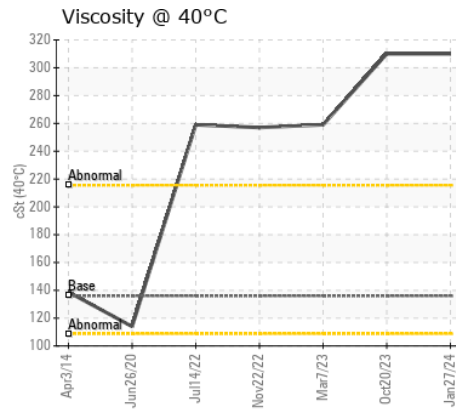
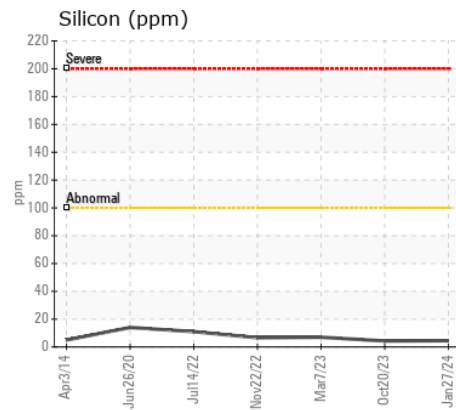
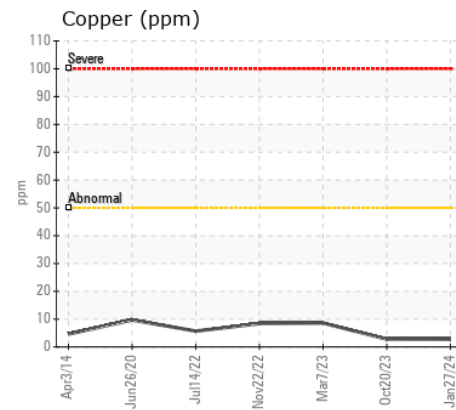
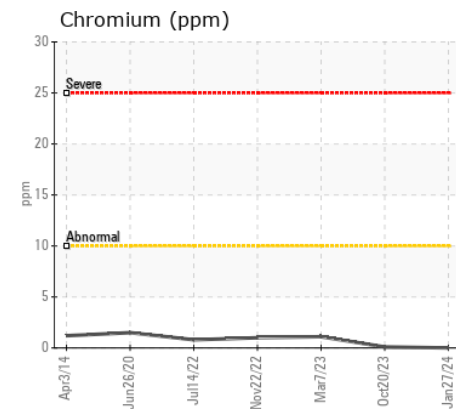
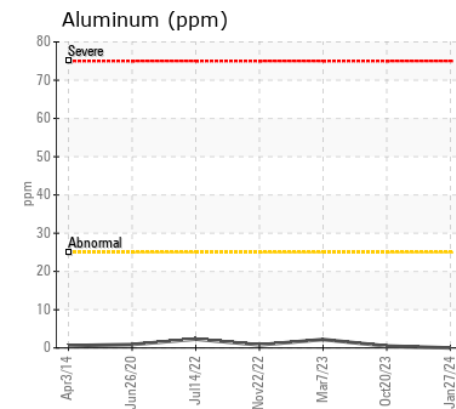
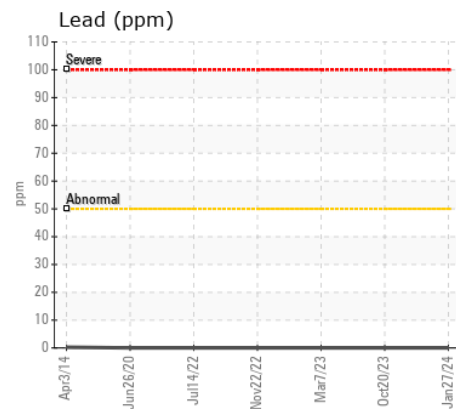
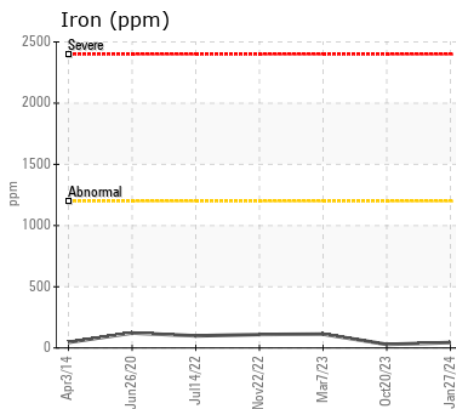
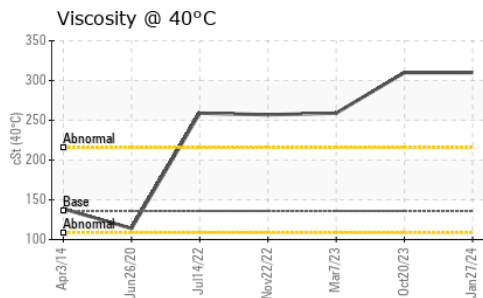
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	4	4	7
Potassium	ppm	ASTM D5185m	>20	0	<1	1
Water		WC Method	>0.25	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	<1	0
Boron	ppm	ASTM D5185m		41	36	160
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		<1	0	6
Calcium	ppm	ASTM D5185m		72	26	48
Phosphorus	ppm	ASTM D5185m		769	777	966
Zinc	ppm	ASTM D5185m		34	2	16
Sulfur	ppm	ASTM D5185m		18957	18309	25705
Visc @ 40°C	cSt	ASTM D445	136	310	310	259



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP442294 **Received** : 12 Feb 2024
Lab Number : 06086301 **Tested** : 13 Feb 2024
Unique Number : 10873746 **Diagnosed** : 13 Feb 2024 - Sean Felton
Test Package : MOB 1

WASTE MANAGEMENT
 5245 BLEIGH AVE
 PHILADELPHIA, PA
 US 19136
 Contact: JERRY SAUTER
 gsauterj@wm.com
 T: (610)636-4994
 F:

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)