



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[W/O 10608]
Machine Id
VOLVO EC480E 310061
Component
Right Swing Drive
Fluid
MOBIL MOBILUBE HD PLUS 85W140 (2 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0001163	VCP405024	VCP322060
Sample Date		Client Info		15 Apr 2024	26 Jan 2023	06 Jul 2021
Machine Age	hrs	Client Info		11663	10460	9372
Oil Age	hrs	Client Info		1000	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	Not Changed	Not Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	158	168	692
Chromium	ppm	ASTM D5185m	>10	<1	2	7
Nickel	ppm	ASTM D5185m	>10	<1	10	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	0	3
Lead	ppm	ASTM D5185m	>50	<1	0	<1
Copper	ppm	ASTM D5185m	>50	8	8	22
Tin	ppm	ASTM D5185m	>10	<1	0	<1
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.

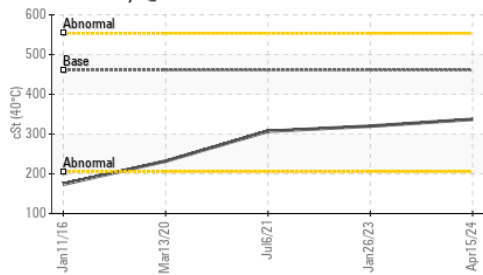
Silicon	ppm	ASTM D5185m	>100	4	6	14
Potassium	ppm	ASTM D5185m	>20	4	3	0
Water		WC Method	>0.25	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	▲ MODER	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	● MILKY	● MILKY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.25	NEG	▲ 0.2%	▲ 0.2%

FLUID CONDITION

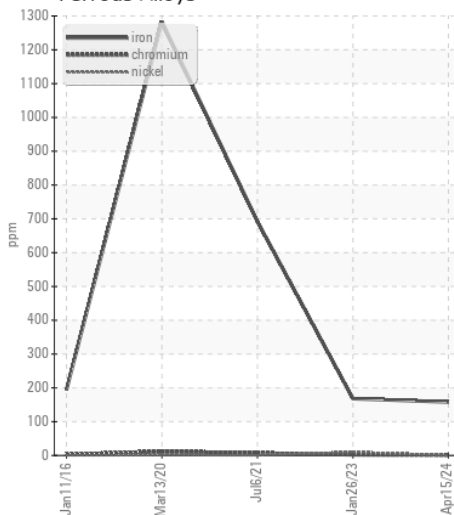
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		0	15	0
Boron	ppm	ASTM D5185m		82	49	56
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		2	2	6
Magnesium	ppm	ASTM D5185m		<1	2	2
Calcium	ppm	ASTM D5185m		49	12	19
Phosphorus	ppm	ASTM D5185m		936	460	893
Zinc	ppm	ASTM D5185m		52	31	63
Sulfur	ppm	ASTM D5185m		17837	10168	23791
Visc @ 40°C	cSt	ASTM D445	461	337	320	307

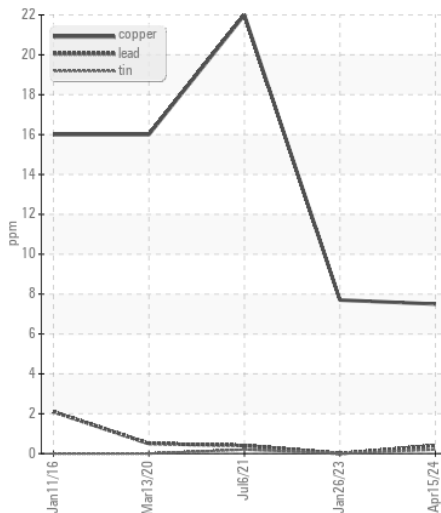
Viscosity @ 40°C



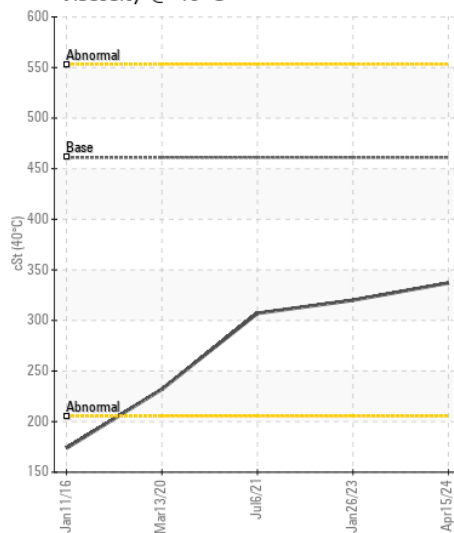
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : ML0001163

Lab Number : 06155324

Unique Number : 10990747

Test Package : CONST

Received : 19 Apr 2024

Tested : 24 Apr 2024

Diagnosed : 24 Apr 2024 - Sean Felton

CLEAN EARTH - UPPER MARLBORO

6250 DOWER HOUSE RD

UPPER MARLBORO, MD

US 20772

Contact: TIMMY GOVER

tgover@harsco.com

T:

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)