



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[SWO-068635]

Machine Id

EPIROC TMG21SED0165

Component

Rear Right Final Drive

Fluid

MOBIL MOBILGEAR SHC 220 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP441705	VCP445804	VCP432934
Sample Date		Client Info		04 Jan 2024	14 Nov 2023	04 Oct 2023
Machine Age	hrs	Client Info		4682	4407	4102
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Not Changed	Not Changed	Not Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	333	404	190
Chromium	ppm	ASTM D5185m	>10	3	5	2
Nickel	ppm	ASTM D5185m	>10	2	1	1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	4	0
Lead	ppm	ASTM D5185m	>25	23	▲ 98	17
Copper	ppm	ASTM D5185m	>50	15	▲ 41	12
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	MODER	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

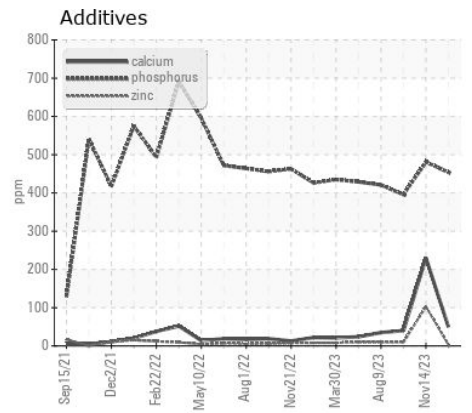
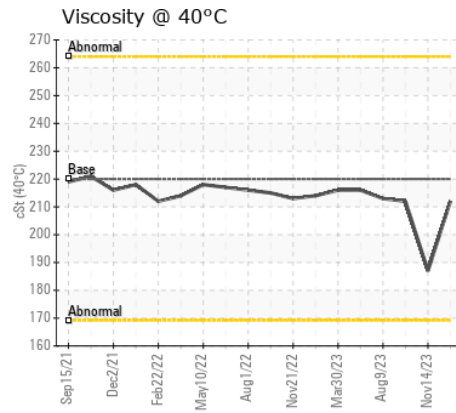
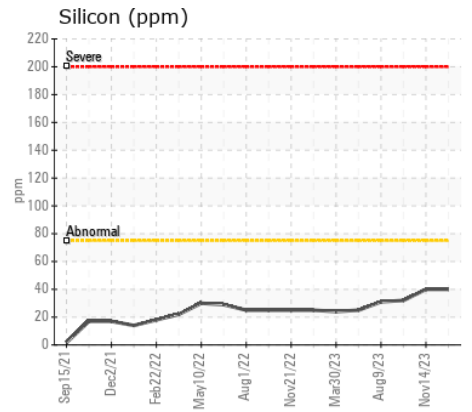
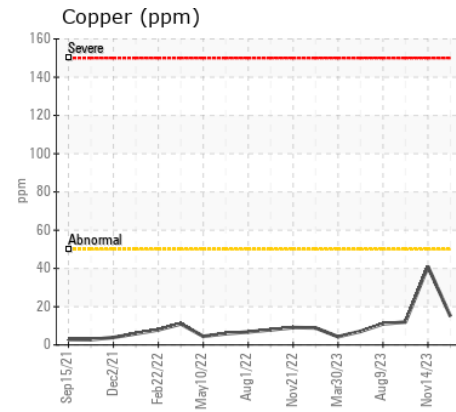
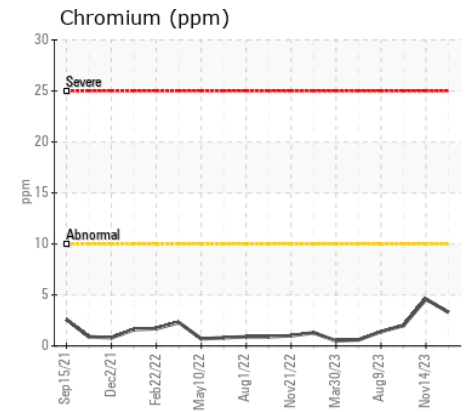
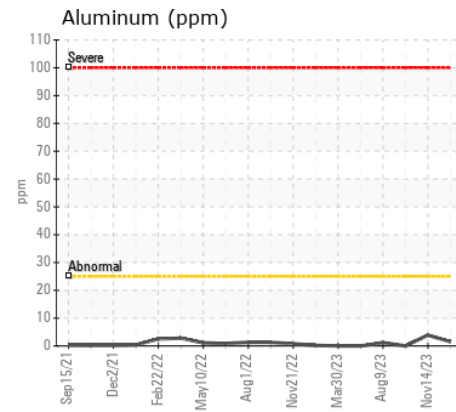
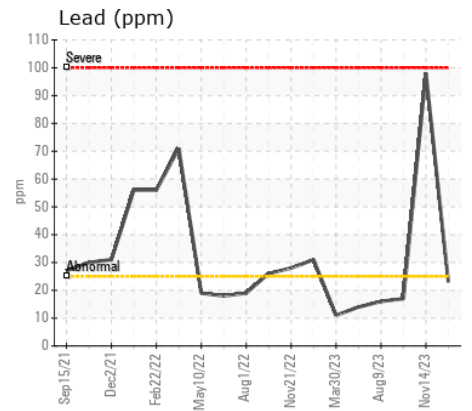
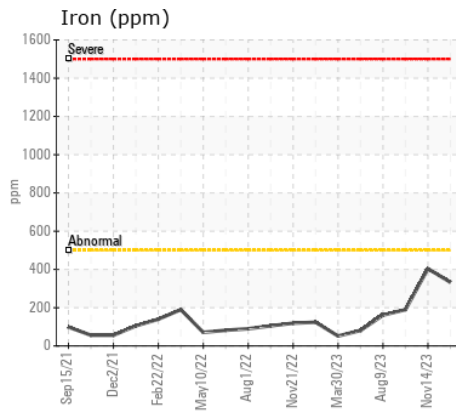
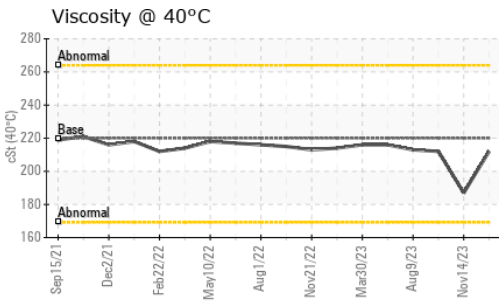
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	40	40	32
Potassium	ppm	ASTM D5185m	>20	2	<1	1
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	NONE	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		0	<1	0
Boron	ppm	ASTM D5185m		4	10	6
Barium	ppm	ASTM D5185m		3	0	2
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		3	4	2
Magnesium	ppm	ASTM D5185m		3	6	2
Calcium	ppm	ASTM D5185m		50	230	40
Phosphorus	ppm	ASTM D5185m		454	481	396
Zinc	ppm	ASTM D5185m		4	103	9
Sulfur	ppm	ASTM D5185m		2632	2584	3055
Visc @ 40°C	cSt	ASTM D445	220	212	187	212



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP441705 **Received** : 12 Jan 2024
Lab Number : 06059611 **Diagnosed** : 16 Jan 2024
Unique Number : 10830993 **Diagnostician** : Jonathan Hester
Test Package : MOB 1

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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)