



# ASCENDUM

## OIL ANALYSIS REPORT

WEAR	<b>ABNORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

### Ascendum Machinery/250 Hour Service

Machine Id

### SANDVIK 64500

Component

### Rear Right Final Drive

Fluid

### VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)

#### RECOMMENDATION

No corrective action is recommended at this time. 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		ASC0007133	ASC0001412	ASC0000416
Sample Date		Client Info		08 Apr 2024	11 Sep 2023	12 May 2023
Machine Age	hrs	Client Info		6029	5044	4617
Oil Age	hrs	Client Info		985	1872	3433
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL

#### WEAR

The lead level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	172	0	155
Chromium	ppm	ASTM D5185m	>10	1	0	1
Nickel	ppm	ASTM D5185m	>10	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		5	0	0
Aluminum	ppm	ASTM D5185m	>25	2	0	<1
Lead	ppm	ASTM D5185m	>25	▲ 107	<1	▲ 94
Copper	ppm	ASTM D5185m	>50	15	1	12
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

#### CONTAMINATION

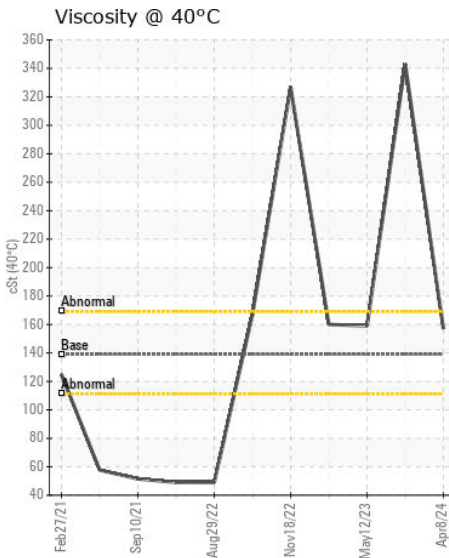
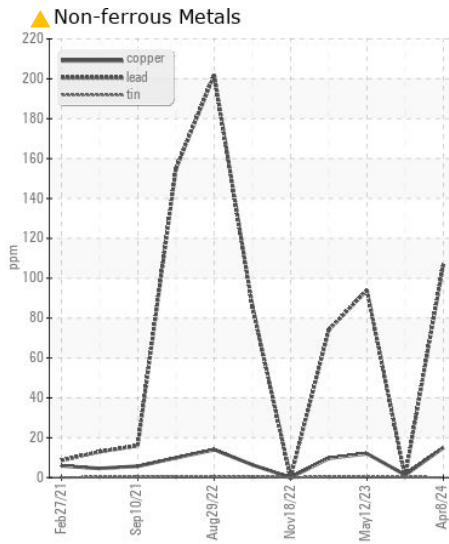
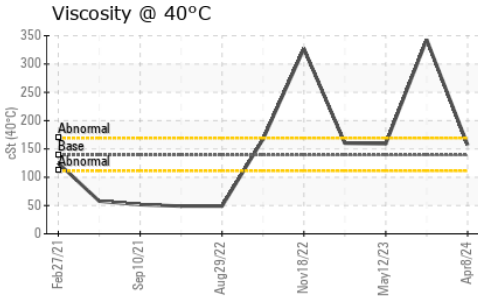
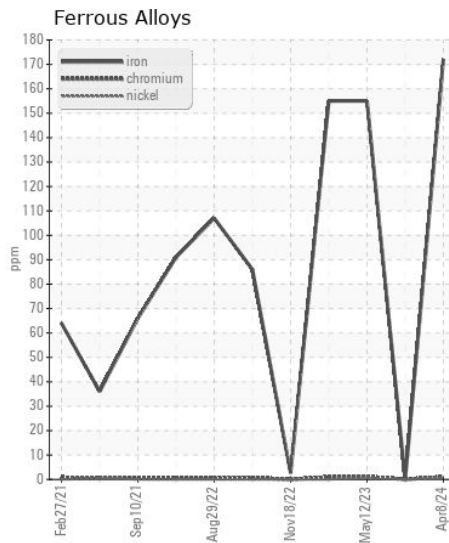
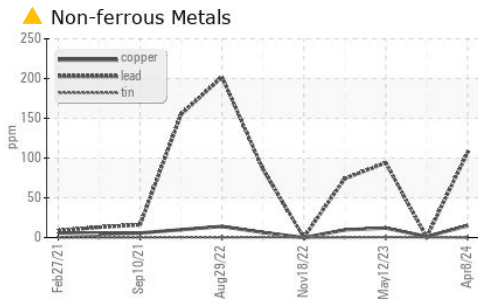
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	5	2	4
Potassium	ppm	ASTM D5185m	>20	2	2	<1
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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	2	4
Boron	ppm	ASTM D5185m	379	173	191	255
Barium	ppm	ASTM D5185m	0.0	2	0	0
Molybdenum	ppm	ASTM D5185m	0.8	<1	<1	1
Manganese	ppm	ASTM D5185m	0.0	2	<1	2
Magnesium	ppm	ASTM D5185m	31	2	2	<1
Calcium	ppm	ASTM D5185m	38	27	2	33
Phosphorus	ppm	ASTM D5185m	1077	1304	1027	1641
Zinc	ppm	ASTM D5185m	46	70	0	55
Sulfur	ppm	ASTM D5185m	23526	32022	33785	33989
Visc @ 40°C	cSt	ASTM D445	139	157	343	159



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0007133  
**Lab Number** : 06149140  
**Unique Number** : 10979218  
**Test Package** : CONST  
**Received** : 15 Apr 2024  
**Tested** : 16 Apr 2024  
**Diagnosed** : 17 Apr 2024 - Sean Felton

**MARTIN MARIETTA**  
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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)