



# ASCENDUM

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Area

**Ascendum Machinery/250 Hour Service**

Machine Id

**SANDVIK 56875**

Component

**Rear Right Final Drive**

Fluid

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

### RECOMMENDATION

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		ASC0009556	ASC0005252	VCP0006561
Sample Date		Client Info		20 May 2024	20 Oct 2023	09 May 2023
Machine Age	hrs	Client Info		9895	8969	8043
Oil Age	hrs	Client Info		926	926	920
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				ATTENTION	ATTENTION	ATTENTION

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	108	0	175
Chromium	ppm	ASTM D5185m	>10	<1	0	1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	0	6
Lead	ppm	ASTM D5185m	>25	3	0	5
Copper	ppm	ASTM D5185m	>50	5	<1	5
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

### CONTAMINATION

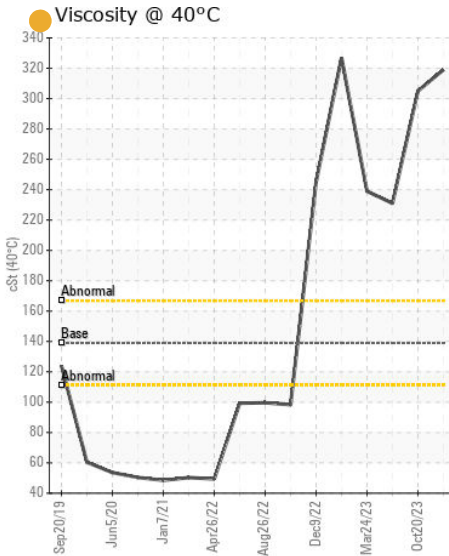
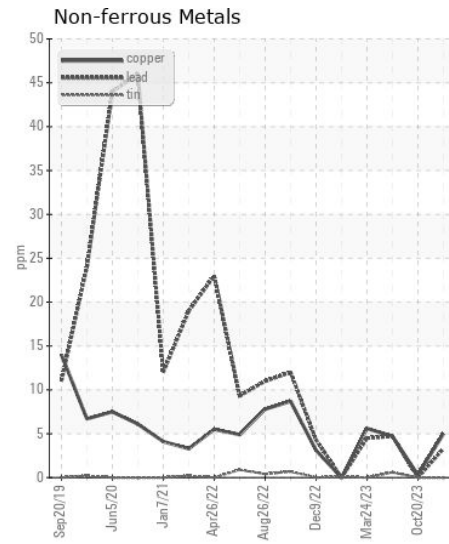
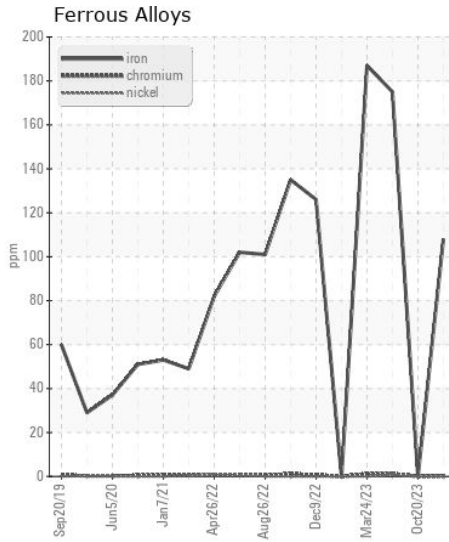
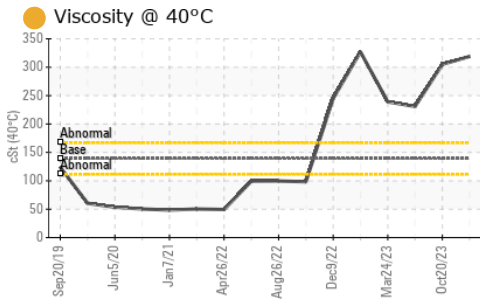
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	12	<1	10
Potassium	ppm	ASTM D5185m	>20	0	0	1
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	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 oil viscosity is higher than normal. Confirm oil type.

Sodium	ppm	ASTM D5185m		2	0	0
Boron	ppm	ASTM D5185m	379	241	197	190
Barium	ppm	ASTM D5185m	0.0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0.8	2	0	2
Manganese	ppm	ASTM D5185m	0.0	1	0	2
Magnesium	ppm	ASTM D5185m	31	4	0	23
Calcium	ppm	ASTM D5185m	38	26	128	46
Phosphorus	ppm	ASTM D5185m	1077	1132	1030	1077
Zinc	ppm	ASTM D5185m	46	36	46	35
Sulfur	ppm	ASTM D5185m	23526	34667	28440	33441
Visc @ 40°C	cSt	ASTM D445	139	319	305	231



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0009556  
**Lab Number** : 06191387  
**Unique Number** : 11048139  
**Test Package** : CONST  
**Received** : 24 May 2024  
**Tested** : 29 May 2024  
**Diagnosed** : 29 May 2024 - Sean Felton

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)

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