



# ASCENDUM

## OIL ANALYSIS REPORT

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

Area

**Ascendum Machinery/250 Hour Service**

Machine Id

**SANDVIK 16712**

Component

**Rear Right Final Drive**

Fluid

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

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ASC0007351</b>	ASC0007856	ASC0005436
Sample Date		Client Info		<b>18 Apr 2024</b>	17 Jan 2024	20 Oct 2023
Machine Age	hrs	Client Info		<b>11892</b>	11392	10901
Oil Age	hrs	Client Info		<b>11401</b>	491	992
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>N/A</b>	None	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ATTENTION

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>64</b>	74	<1
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	1	0
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>1</b>	1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>8</b>	10	0
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>14</b>	15	<1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

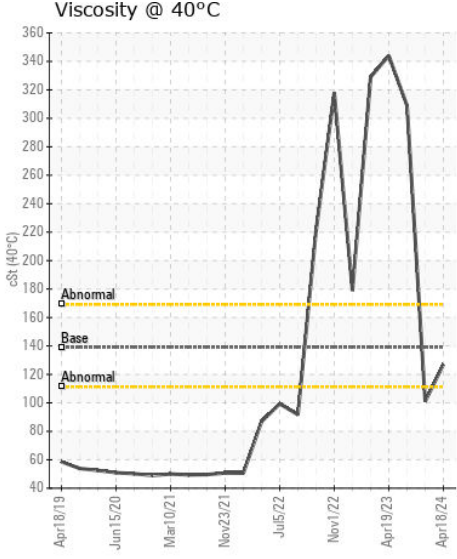
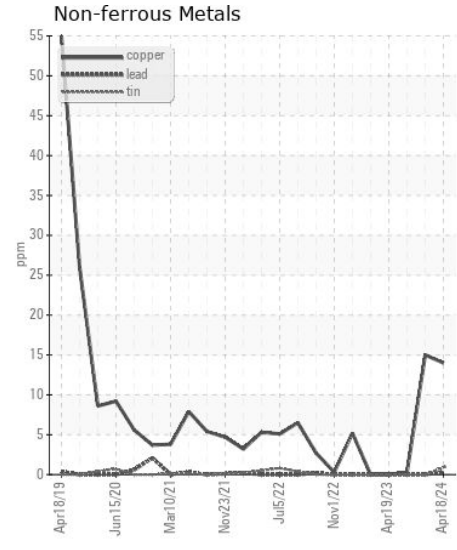
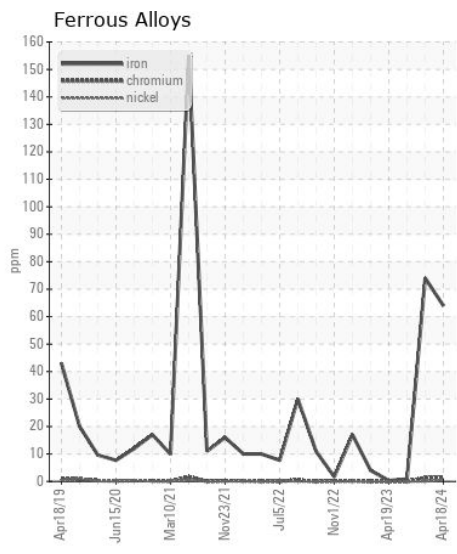
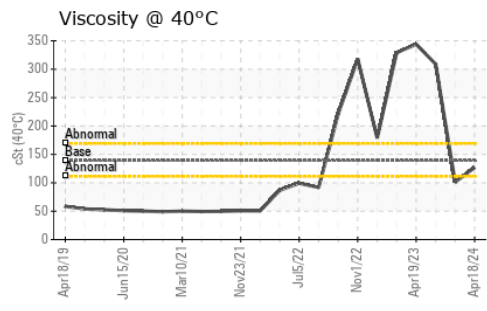
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>28</b>	33	<1
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	3	0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>4</b>	2	0
Boron	ppm	ASTM D5185m	379	<b>96</b>	66	186
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0.8	<b>1</b>	<1	0
Manganese	ppm	ASTM D5185m	0.0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m	31	<b>16</b>	15	<1
Calcium	ppm	ASTM D5185m	38	<b>106</b>	111	124
Phosphorus	ppm	ASTM D5185m	1077	<b>830</b>	651	984
Zinc	ppm	ASTM D5185m	46	<b>178</b>	202	45
Sulfur	ppm	ASTM D5185m	23526	<b>19529</b>	15351	26989
Visc @ 40°C	cSt	ASTM D445	139	<b>127</b>	101	309



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0007351  
**Lab Number** : 06158059  
**Unique Number** : 10993482  
**Test Package** : CONST  
**Received** : 23 Apr 2024  
**Tested** : 24 Apr 2024  
**Diagnosed** : 24 Apr 2024 - Wes Davis

**MARTIN MARIETTA**  
 4551 BEATTIES FORD ROAD  
 CHARLOTTE, NC  
 US 28216  
 Contact: TIM BYLES  
 tim.byles@martinmarietta.com  
 T: (704)392-1333  
 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)