



# ASCENDUM

## OIL ANALYSIS REPORT

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



Area  
**Ascendum Machinery/500 Hour CSA**  
Machine Id  
**VOLVO A45G 2363 (S/N A45GV752172)**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 30 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 30. Please confirm.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ASC0009417</b>	ASC0010301	---
Sample Date		Client Info		<b>16 Jul 2024</b>	02 Apr 2024	---
Machine Age	hrs	Client Info		<b>1058</b>	476	---
Oil Age	hrs	Client Info		<b>500</b>	476	---
Filter Age	hrs	Client Info		<b>500</b>	476	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>15</b>	26	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	---
Nickel	ppm	ASTM D5185m	>2	<b>3</b>	3	---
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	3	---
Lead	ppm	ASTM D5185m	>40	<b>1</b>	1	---
Copper	ppm	ASTM D5185m	>330	<b>43</b>	196	---
Tin	ppm	ASTM D5185m	>15	<b>1</b>	4	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

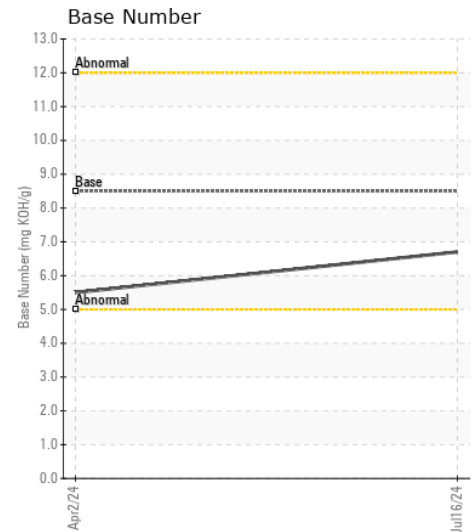
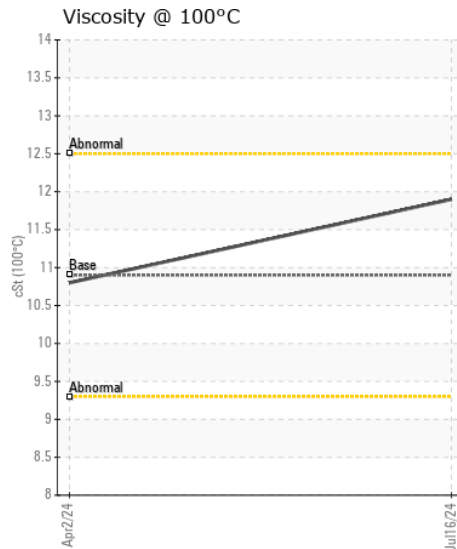
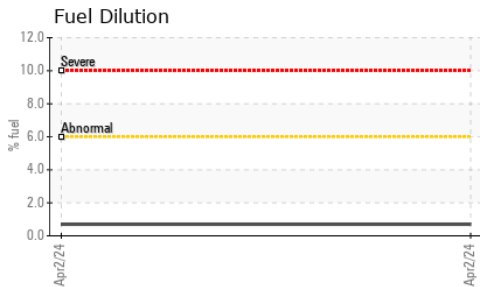
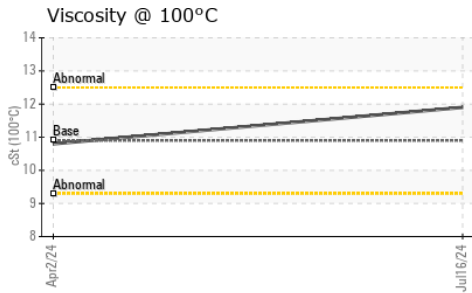
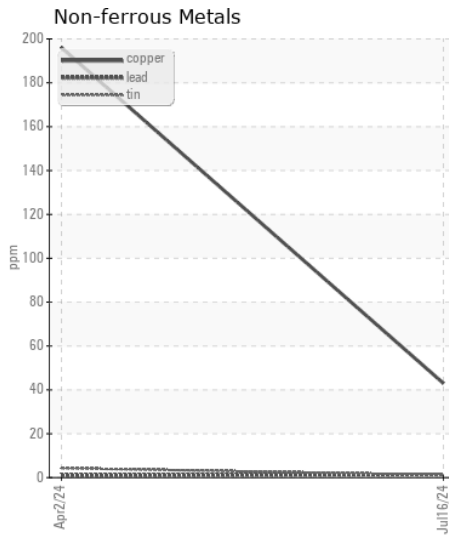
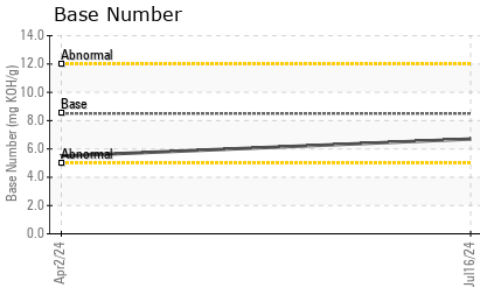
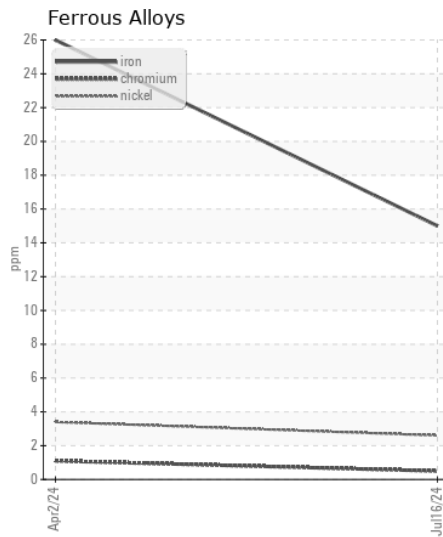
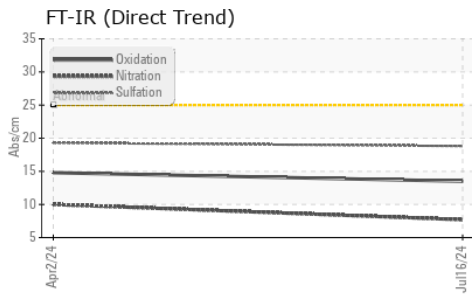
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>7</b>	24	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	4	---
Fuel	%	ASTM D3524	>6.0	<b>&lt;1.0</b>	0.7	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.7</b>	10.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.8</b>	19.3	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---

### FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>75	<b>3</b>	3	---
Boron	ppm	ASTM D5185m	250	<b>5</b>	47	---
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	100	<b>60</b>	88	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	2	---
Magnesium	ppm	ASTM D5185m	450	<b>703</b>	32	---
Calcium	ppm	ASTM D5185m	3000	<b>1118</b>	2136	---
Phosphorus	ppm	ASTM D5185m	1150	<b>893</b>	991	---
Zinc	ppm	ASTM D5185m	1350	<b>945</b>	1148	---
Sulfur	ppm	ASTM D5185m	4250	<b>2796</b>	4041	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.5</b>	14.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>6.7</b>	5.5	---
Visc @ 100°C	cSt	ASTM D445	10.9	<b>11.9</b>	10.8	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0009417 **Received** : 18 Jul 2024  
**Lab Number** : 06239991 **Tested** : 19 Jul 2024  
**Unique Number** : 11128825 **Diagnosed** : 19 Jul 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: FuelDilution, TBN )

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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)