



ASCENDUM

OIL ANALYSIS REPORT

WEAR **NORMAL**

CONTAMINATION **NORMAL**

FLUID CONDITION **NORMAL**



Area

Ascendum Machinery

Machine Id

VOLVO A30G ORT-30 (S/N A30GV752549)

Component

Diesel Engine

Fluid

VOLVO VDS-4.5 Premium Motor Oil 15W40 (9 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0005480	VCP0006573	VCP0005281
Sample Date		Client Info		12 Oct 2023	16 May 2023	06 Dec 2022
Machine Age	hrs	Client Info		2594	1992	1510
Oil Age	hrs	Client Info		602	482	472
Filter Age	hrs	Client Info		0	482	472
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	6	10	11
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	1	2	1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	0
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	3	5	15
Tin	ppm	ASTM D5185m	>15	1	2	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

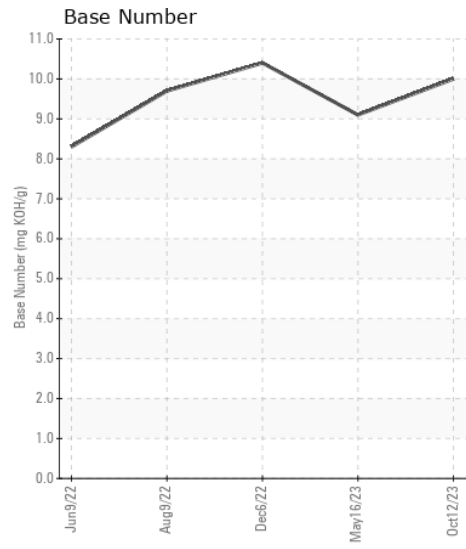
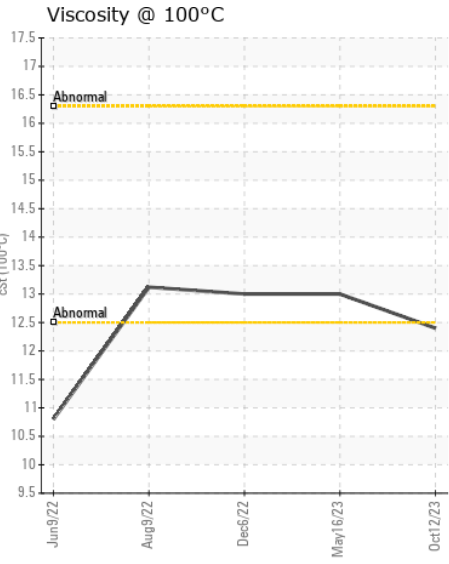
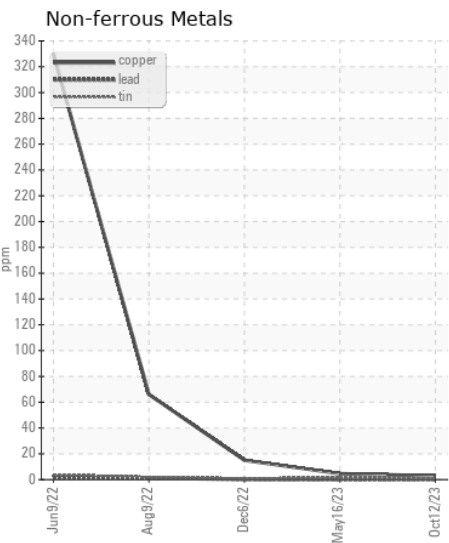
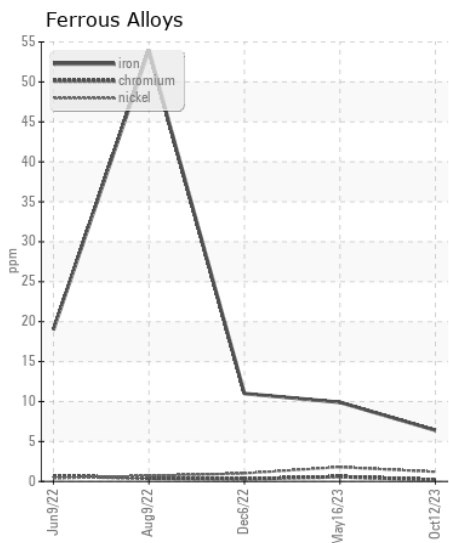
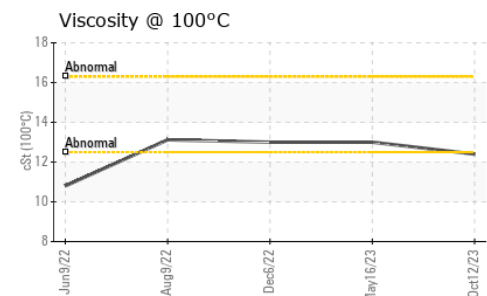
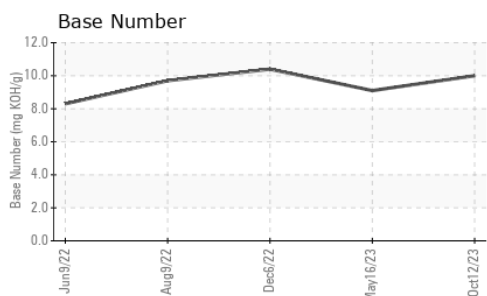
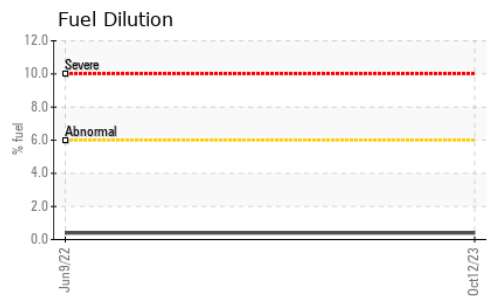
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	5	4	4
Potassium	ppm	ASTM D5185m	>20	1	1	1
Fuel	%	ASTM D3524	>6.0	0.4	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.6	6.4	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	18.6	21.0
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 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		3	2	0
Boron	ppm	ASTM D5185m		35	11	17
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		41	62	57
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		532	950	767
Calcium	ppm	ASTM D5185m		1561	1150	1319
Phosphorus	ppm	ASTM D5185m		964	1078	1016
Zinc	ppm	ASTM D5185m		1122	1293	1173
Sulfur	ppm	ASTM D5185m		2893	3971	3845
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.8	14.4	16.9
Base Number (BN)	mg KOH/g	ASTM D2896		10.0	9.1	10.4
Visc @ 100°C	cSt	ASTM D445		12.4	13.0	13.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0005480 **Received** : 13 Oct 2023
Lab Number : 05978073 **Tested** : 16 Oct 2023
Unique Number : 10695368 **Diagnosed** : 16 Oct 2023 - Wes Davis
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

PEDULLA EXCAVATING & PAVING
 1275 SHINN FARM RD
 MOORESVILLE, NC
 US 28115
 Contact: Service Manager

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)

T:
F: