

**Ascendum Machinery** 

Component Diesel Engine

VOLVO A30G A30GV742414

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

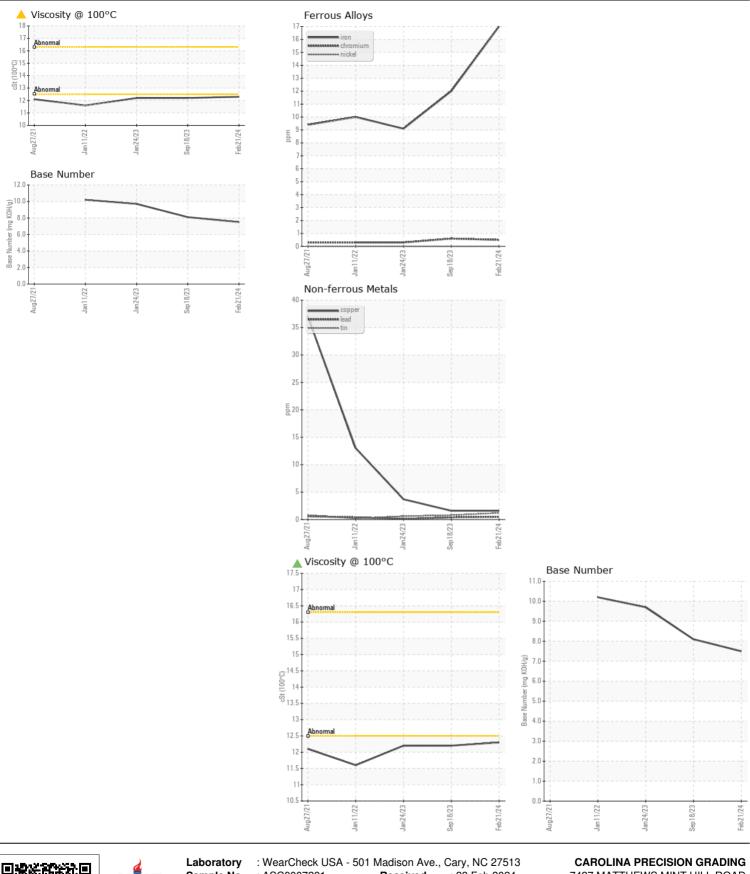
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info Client Info		ASC0007281	ASC0000795	VCP0007344
	Sample Date Machine Age	bro	Client Info		21 Feb 2024 5214	18 Sep 2023 4505	24 Jan 2023 3637
	Oil Age	hrs hrs	Client Info		5214 709	4505 868	3637
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed	1115	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status		Ollent Into		ATTENTION	U	ATTENTION
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	17	12	9
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	2	3	0
	Lead	ppm	ASTM D5185m	>40	<1	<1	<1
	Copper	ppm	ASTM D5185m	>330	2	2	4
	Tin	ppm	ASTM D5185m	>15	1	<1	<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	Silicon	ppm	ASTM D5185m	>25	5	5	5
	Potassium	ppm	ASTM D5185m		2	<1	1
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method	>6.0	- <1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.7	0.6	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	9.7	8.3	7.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	21.2	21.8
	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	Sodium	nom	ASTM D5185m		3	<1	<1
	Boron	ppm	ASTM D5185m		22	28	51
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		36	41	40
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		505	472	464
	Calcium	ppm	ASTM D5185m		1751	1745	1620
	Phosphorus	ppm	ASTM D5185m		892	939	892
	Zinc	ppm	ASTM D5185m		1094	1125	1048
	Sulfur	ppm	ASTM D5185m		2959	3400	2722
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.7	18.8	19.6
	Base Number (BN)				7.5	8.1	9.7
	Vice @ 100%C	oC+			10.0	A 10.0	10.0

Visc @ 100°C cSt ASTM D445

**12.2** 

**12.3** 

**12.2** 



Sample No. : ASC0007281 Received : 23 Feb 2024 7427 MATTHEWS MINT HILL ROAD Lab Number : 06098948 Tested : 26 Feb 2024 CHARLOTTE, NC Unique Number : 10897178 Diagnosed : 26 Feb 2024 - Don Baldridge US 28227 Test Package : CONST (Additional Tests: TBN) Contact: Service Manager Certificate L2367 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. T: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: CHARLIE CANIPE