

Ascendum Machinery 623187 VOLVO L90H 623187

**Diesel Engine** 

## 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. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0005078	VCP306642	VCP245155
	Sample Date		Client Info		21 Nov 2023	11 Feb 2021	01 Apr 2020
	Machine Age	hrs	Client Info		16274	14435	13061
	Oil Age	hrs	Client Info		1839	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR The aluminum level is abnormal. All other component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	27	19	13
	Chromium	ppm	ASTM D5185m	>10	3	3	<1
	Nickel	ppm	ASTM D5185m	>10	0	0	<1
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>10	<b>4</b> 3	▲ 64	8
	Lead	ppm	ASTM D5185m	>20	0	<1	0
	Copper	ppm	ASTM D5185m	>15	2	1	<1
	Tin	ppm	ASTM D5185m	>10	0	<1	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	11	6	5
	Potassium	ppm	ASTM D5185m		2	2	<1
There is no indication of any contamination in the oil.	Fuel	pp	WC Method	>6.0	- <1.0	1.3	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	1.1	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	6.6	9.1	8.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	22.2	21.6
	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	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		7	5	4
	Boron	ppm	ASTM D5185m		331	26	30
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		87	44	44
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		439	465	671
	Calcium	ppm	ASTM D5185m		1339	1556	1859
	Phosphorus	ppm	ASTM D5185m		1040	870	1080
	Zinc	ppm	ASTM D5185m		1243	986	1182
	Sulfur	ppm	ASTM D5185m		3190	2382	2028
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	18.8	18.5
	Base Number (BN)			-	7.7		
		- 01			10.4	10.4	10.0

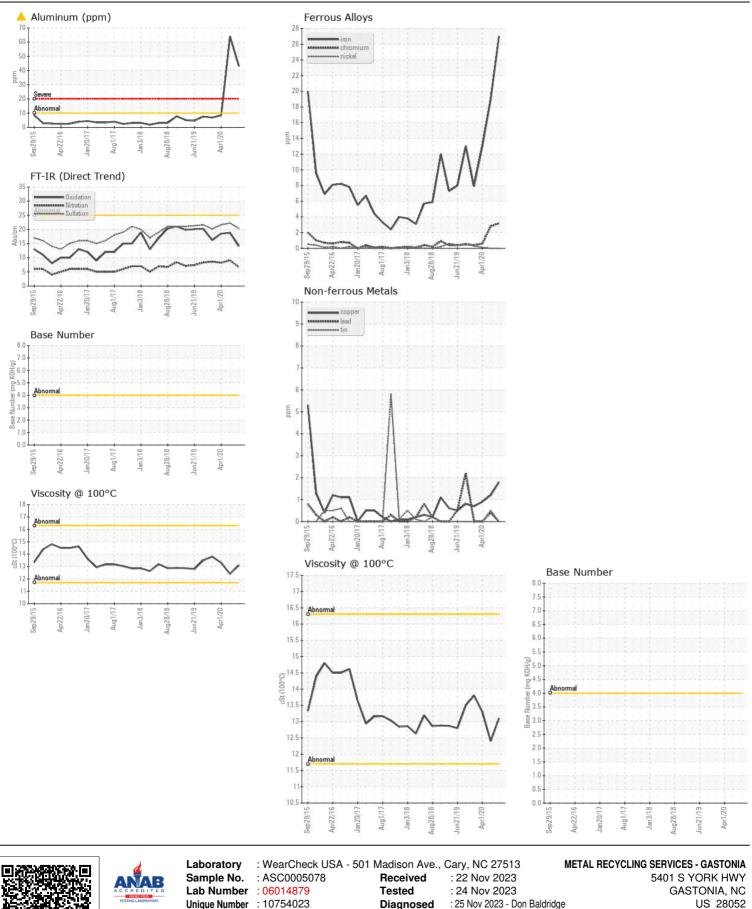
Visc @ 100°C cSt

ASTM D445

12.4

13.3

13.1



Test Package : CONST (Additional Tests: TBN) Contact: RYAN BOWDEN 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Submitted By: CHARLIE CANIPE Page 2 of 2

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