

Ascendum Machinery Machine Id VOLVO L180H 5319 Diesel Engine

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

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Decemple at the part convice interval to recriter	Sample Number		Client Info		ASC0009839	ASC0000667	ASC0007352
Resample at the next service interval to monitor.	Sample Date		Client Info		12 Jun 2024	06 May 2024	15 Feb 2024
	Machine Age	hrs	Client Info		11250	11005	10435
	Oil Age	hrs	Client Info		245	570	447
	Filter Age	hrs	Client Info		0	0	0
	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	3	2	4
	Chromium	ppm	ASTM D5185m	>10	<1	0	0
	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>10	2	1	<1
	Lead	ppm	ASTM D5185m	>20	<1	0	<1
	Copper	ppm	ASTM D5185m	>15	<1	3	<1
	Tin	ppm	ASTM D5185m	>10	<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	>20	4	3	4
	Potassium	ppm	ASTM D5185m	>20	1	0	0
There is no indication of any contamination in the oil.	Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	5.6	5.6	6.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	20.6	21.3
	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 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		<1	3	2
	Boron	ppm	ASTM D5185m		51	64	62
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		38	41	37
	Manganese	ppm	ASTM D5185m		0	1	<1
	Magnesium	ppm	ASTM D5185m		475	479	428
	Calcium	ppm	ASTM D5185m		1639	1686	1596
	Phosphorus	ppm	ASTM D5185m		845	938	906
	Zinc	ppm	ASTM D5185m		1107	1121	1044
	Sulfur	ppm	ASTM D5185m		3246	3437	2851
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	18.5	19.7
	Base Number (BN)				10.2	9.9	9.7
	Vice @ 100°C	~C+	ACTM D445		12.0	12.0	120

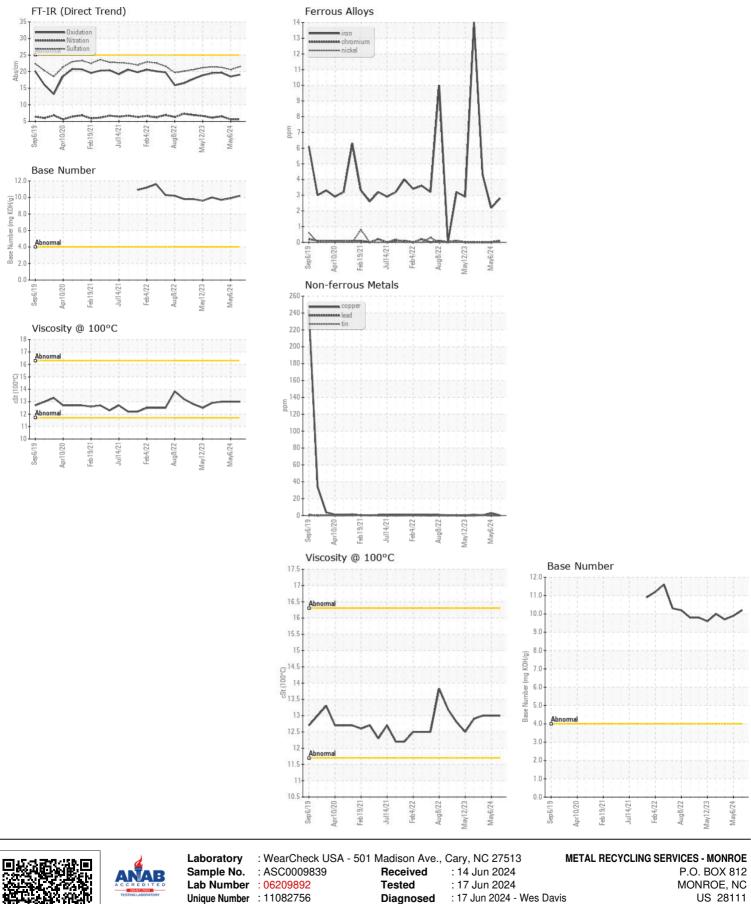
Visc @ 100°C cSt

ASTM D445

13.0

13.0

13.0



Certificate L2367 Test Package : CONST (Additional Tests: TBN)

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) F: (704)238-0755

Submitted By: CLAYTON SMITH Page 2 of 2

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