

Ascendum Machinery Machine Id VOLVO L150H RL66 (S/N L150HV6551) Component Diesel Engine

VOLVO VDS-4.5 Premium Motor Oil 15W40 (13 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		ASC0009908	ASC0007699	ASC0001211
Resample at the next service interval to monitor.	Sample Date		Client Info		09 May 2024	01 Mar 2024	29 Aug 2023
	Machine Age	hrs	Client Info		15953	15485	14000
	Oil Age	hrs	Client Info		468	1485	385
	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	ATTENTION
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		4	9	6
	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m	>10	0	<1	0
	Titanium	ppm	ASTM D5185m		32	18	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	4	4
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		3	2	0
	Tin	ppm	ASTM D5185m	>10	<1	<1	0
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	8	14	14
CONTRIMINATION	Potassium	ppm	ASTM D5185m		0	2	0
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method		<1.0	<1.0	2.4
	Water		WC Method		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	6.3	6.7	6.4
	Sulfation	Abs/.1mm	*ASTM D7415		19.2	21.0	20.1
	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		2	2	2
	Boron	ppm	ASTM D5185m		85	62	36
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		31	33	38
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m		491	458	458
	Calcium	ppm	ASTM D5185m		1710	1631	1948
	Phosphorus	ppm	ASTM D5185m		970	920	973
	Zinc	ppm	ASTM D5185m		1140	1120	1205
	Sulfur	ppm	ASTM D5185m		3771	3186	3616
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	19.2	17.1
	Base Number (BN)	mg KOH/g	ASTM D2896		9.0	9.5	9.5

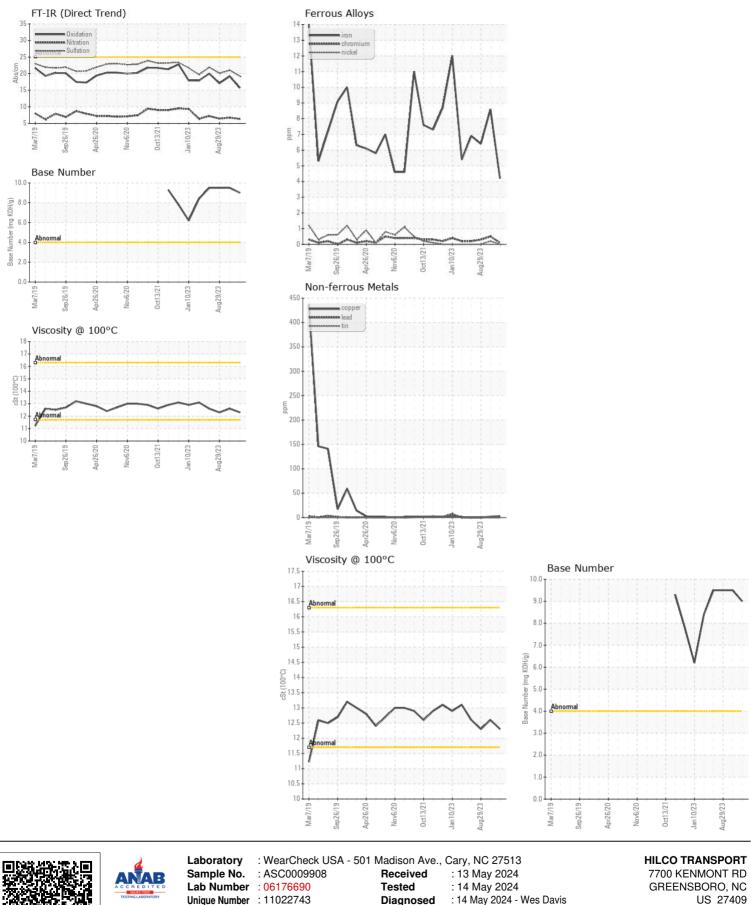
Visc @ 100°C cSt

ASTM D445

12.6

12.3

12.3



Unique Number : 11022743 Diagnosed : 14 May 2024 - Wes Davis Test Package : CONST (Additional Tests: TBN) Contact: MIKE LAUGHEAD Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. mlaughead@hilcotransport.com * - 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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