

Machine Id

VOLVO L180H 5610

Diesel Engine

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0003038	ASC0003392	ASC0003197
	Sample Date		Client Info		19 Apr 2024	12 Feb 2024	05 Dec 2023
	Machine Age	hrs	Client Info		5009	4530	4013
	Oil Age	hrs	Client Info		5009	4013	3532
	Filter Age	hrs	Client Info		0	4013	3532
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
				000	•	0	0
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		2	3	3
	Chromium Nickel	ppm	ASTM D5185m		0	0	0
		ppm	ASTM D5185m	C<	0	<1	0
	Titanium	ppm	ASTM D5185m	0	0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		0	1	<1
	Lead	ppm	ASTM D5185m	>40	0	0	<1
	Copper	ppm	ASTM D5185m		0	0	<1
	Tin	ppm	ASTM D5185m	>20	0	<1	<1
	Vanadium	ppm	ASTM D5185m		0		<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	3	4	4
	Potassium	ppm	ASTM D5185m	>20	0	<1	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	>0.2	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	6.6	6.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	22.0	22.0
	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	Sodium	nom	ASTM D5185m		1	2	2
	Boron	ppm	ASTM D5185m	25	42	43	46
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		42 0	43	40
	Molybdenum	ppm	ASTM D5185m		41	37	41
		ppm	ASTM D5185m		0	<1	<1
	Manganese Magnesium	ppm	ASTM D5185m		533	480	532
	Calcium	ppm	ASTM D5185m		1901	1523	1807
	Phosphorus	ppm	ASTM D5185m		996	896	1006
	Zinc	ppm			996 1199	1064	1195
	Sulfur	ppm ppm	ASTM D5185m		3479	2739	3146
	Oxidation	Abs/.1mm	*ASTM D5165/11		3479 20.6	2739	20.0
	Base Number (BN)	nių kutiją	ASTIVI D2896	10	10.5	9.7	10.3

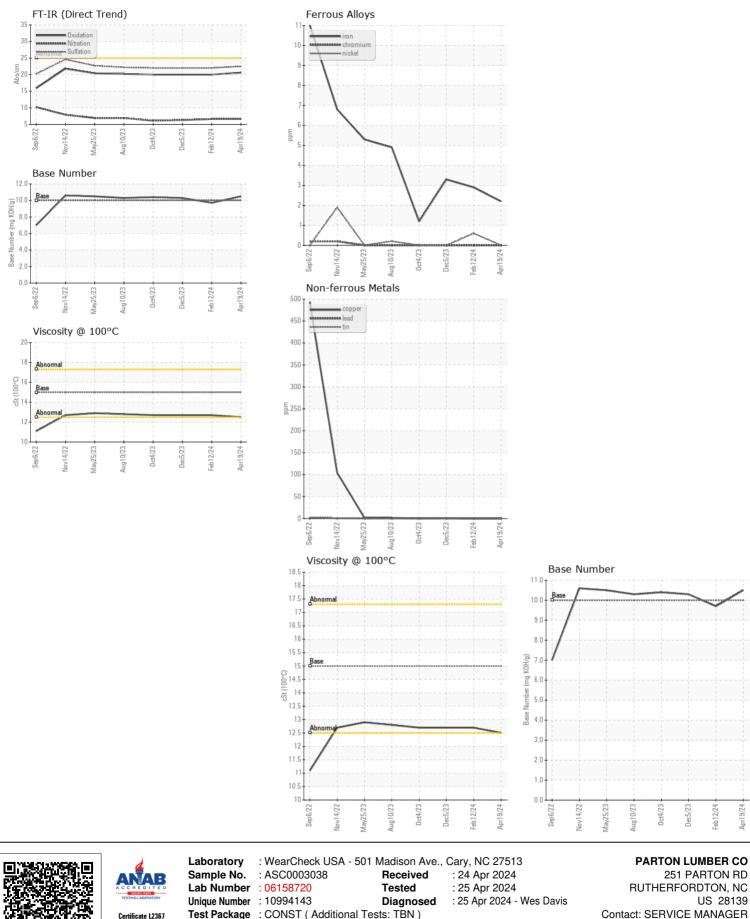
Visc @ 100°C cSt

ASTM D445 15.0

12.7

12.7

12.5



Test Package : CONST (Additional Tests: TBN) 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)

Submitted By: Kendall Rhodes Page 2 of 2