

Machine Id

VOLVO L110H 631123

Diesel Engine

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

			5-3 ( 0	AL)			
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number	0.0111	Client Info		VCP446472	VCP444130	VCP431770
Resample at the next service interval to monitor.	Sample Date		Client Info		10 Jul 2024	04 Mar 2024	06 Oct 2023
	Machine Age	hrs	Client Info		9296	8776	2606
	Oil Age	hrs	Client Info		0	500	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	<100	11	12	10
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m		0	<1	<1
	Titanium	ppm	ASTM D5185m	210	0	<1	<1
	Silver	ppm	ASTM D5185m	>2	0	<1	0
	Aluminum	ppm	ASTM D5185m		4	6	5
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		<1	2	1
	Tin	ppm	ASTM D5185m		0	- 1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Ciliaaa					<u></u>	4
	Silicon	ppm	ASTM D5185m		4 0	6 2	4
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m WC Method			<1.0	<1.0
	Water		WC Method		<1.0 NEG	NEG	<1.0 NEG
	Glycol		WC Method	>0.1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	13	0.3	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.2	7.7	8.0
	Sulfation	Abs/.1mm	*ASTM D7415		20.5	21.2	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	Codium		ACTM DE105m		 າ		3
	Sodium Boron	ppm ppm	ASTM D5185m ASTM D5185m	25	2 21	3 35	22
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		0	0	<1
	Molybdenum	ppm	ASTM D5185m		42	45	48
	Manganese	ppm			-1	<1	0
	Magnesium	ppm	ASTM D5185m		615	521	516
	Calcium	ppm	ASTM D5185m		1661	1731	1649
	Phosphorus	ppm	ASTM D5185m		974	981	978
	Zinc	ppm	ASTM D5185m		1140	1139	1168
	Sulfur	ppm	ASTM D5185m		3519	3213	3349
	Oxidation	Abs/.1mm	*ASTM D7414		18.3	20.0	20.0
	Base Number (BN)		ASTM D2896		9.8	10.4	10.3
		- 01		15.0	40.0	10.0	10.0

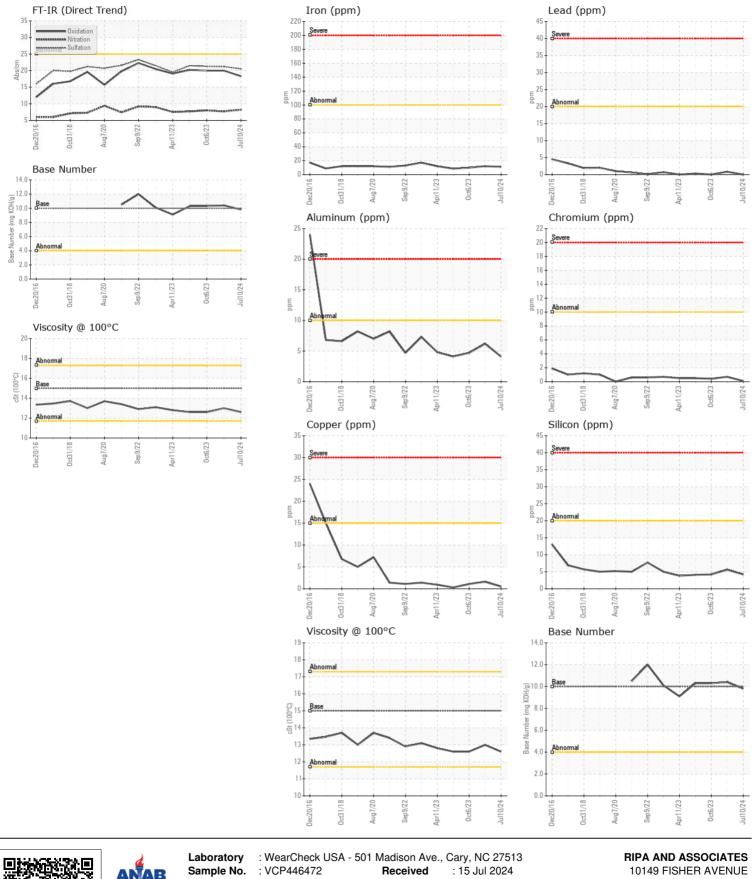
Visc @ 100°C cSt

ASTM D445 15.0

13.0

12.6

12.6



Lab Number : 06235425 Tested TAMPA, FL : 15 Jul 2024 : 15 Jul 2024 - Wes Davis US 33619 Unique Number : 11124259 Diagnosed Test Package : MOB 1 (Additional Tests: TBN) Contact: PM Services Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. PMServices@ripaconstruction.com T: \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)