WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

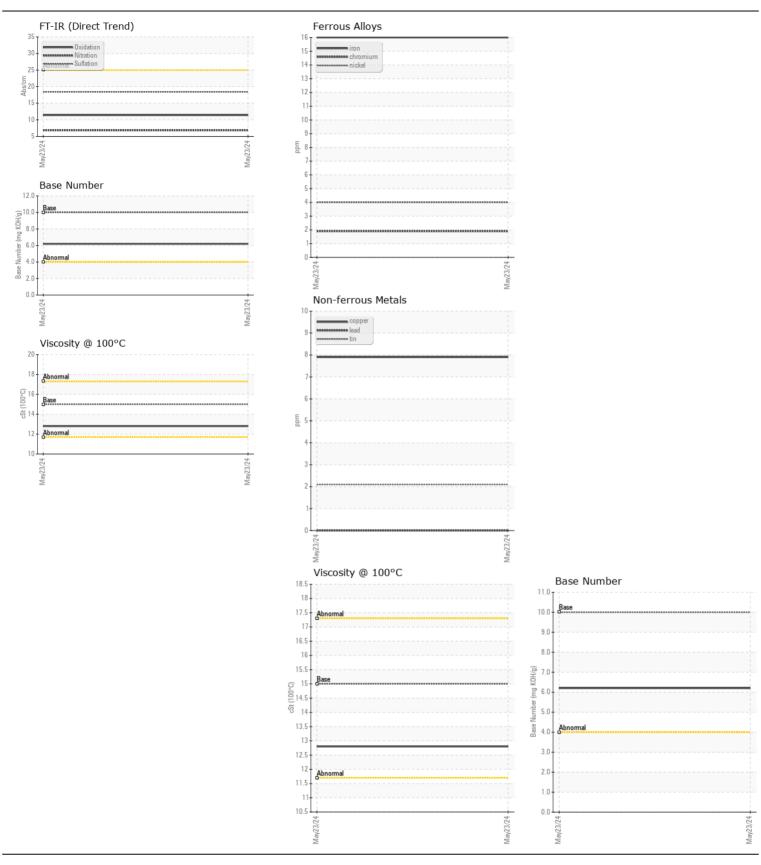


VOLVO L110H 315608

Diesel Engine

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (6 GAL)

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (6 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RESSIMILATION	Sample Number		Client Info	21111071011	ML0002183		
Resample at the next service interval to monitor.	Sample Date		Client Info		23 May 2024		
	Machine Age	hrs	Client Info		656		
	Oil Age	hrs	Client Info		656		
	Filter Age	hrs	Client Info		656		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		16		
	Chromium	ppm	ASTM D5185m		2		
	Nickel	ppm	ASTM D5185m	>10	4		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		3		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		8		
	Tin	ppm	ASTM D5185m	>10	2		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	15		
CONTAININATION	Potassium	ppm	ASTM D5185m		1		
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		- <1.0		
	Water		WC Method		NEG		
	Glycol		WC Method	70.1	NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	6.8		
	Sulfation	Abs/.1mm	*ASTM D7415		18.4		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2		
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		8		
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		1		
	Molybdenum	ppm	ASTM D5185m		15		
	Manganese	ppm	ASTM D5185m		3		
	Magnesium	ppm	ASTM D5185m		215		
	Calcium	ppm	ASTM D5185m		2070		
	Phosphorus	ppm	ASTM D5185m		936		
	Zinc	ppm		1223	1089		
	Sulfur	ppm	ASTM D5185m		3917		
	Oxidation	Abs/.1mm	*ASTM D7414		11.4		
	Base Number (BN)	0	ASTM D2896		6.2		
	Visc @ 100°C	cSt	ASTM D445	15.0	12.8		







Certificate L2367

Laboratory

Sample No.

: ML0002183 Lab Number : 06196247 Unique Number : 11058370

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

Tested Diagnosed Test Package : CONST (Additional Tests: TBN)

: 31 May 2024 : 03 Jun 2024

: 03 Jun 2024 - Don Baldridge

RECYCLE 1 4700 LAWRENCE ST HYATTSVILLE, MD US 20781 Contact: MIKE DESJARDINS

mdesjarkins@wbwaste.com T:

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: