

[IAA] Machine id VOLVO L90G 617786 Component Diesel Engine

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

VOLVO DETRA DIESEE ENGINE OIE 15W40 VDS-5 (GAE)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		VCP454850	VCP326792	VCP293550
Resample at the next service interval to monitor.	Sample Date		Client Info		07 May 2024	08 Sep 2021	14 Dec 2020
	Machine Age	hrs	Client Info		13070	11322	10610
	Oil Age	hrs	Client Info		0	712	0
	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	Iron	ppm	ASTM D5185m		14	9	8
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m	>10	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		9	8	2
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		1	<1	<1
	Tin	ppm	ASTM D5185m	>10	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0		0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	6	5	3
	Potassium	ppm	ASTM D5185m		1	<1	<1
There is no indication of any contamination in the oil.	Fuel	1-1-	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	0.3	0.4	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	7.2	9.3	7.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	20.8	22.6
	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
	0				4	0	0
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0.5	1	3	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m ASTM D5185m		54	36	35
oil. The condition of the oil is suitable for further service.	Barium Molybdenum	ppm	ASTM D5185m	0.0	1 40	0 29	0 38
	Manganese	ppm	ASTM D5185m		40 <1	<1	<1
	Magnesium	ppm ppm	ASTM D5185m		464	571	484
	Calcium	ppm	ASTM D5185m		1562	1547	1691
	Phosphorus	ppm	ASTM D5185m		961	877	965
	Zinc	ppm	ASTM D5185m		1056	1040	1063
	Sulfur	ppm	ASTM D5185m		2949	2637	2616
	Oxidation	Abs/.1mm	*ASTM D7414		19.3	18	20.4
	Base Number (BN)				9.6		
	(2.1)	9 9					

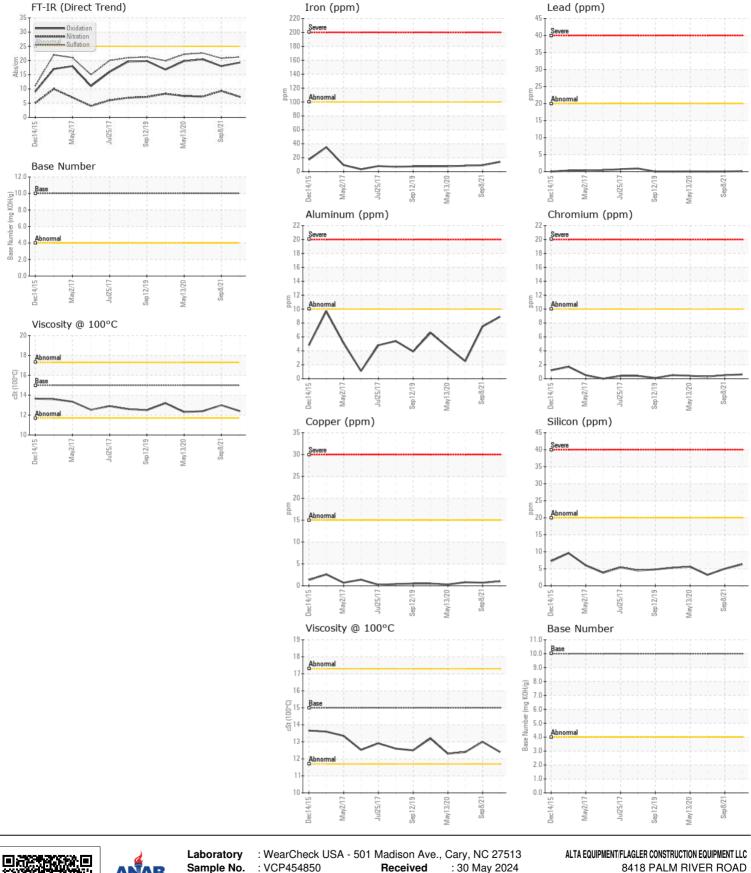
Visc @ 100°C cSt

ASTM D445 15.0

13.0

12.4

12.4



Sample No. : VCP454850 Received : 30 May 2024 Lab Number : 06194955 TAMPA, FL Tested : 31 May 2024 : 31 May 2024 - Wes Davis US 33619 Unique Number : 11057078 Diagnosed Test Package : MOB 1 (Additional Tests: TBN) Contact: KENNY HANEY Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. khaney@flaglerce.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (813)630-0077 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (813)630-2233

Contact/Location: KENNY HANEY - VOLVO0093