

Machine Id

VOLVO A40G 341163 onen

Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		VCP441183	VCP420020	VCP290055
Resample at the next service interval to monitor.	Sample Date		Client Info		08 May 2024	17 Nov 2023	28 Oct 2020
	Machine Age	hrs	Client Info		10842	9855	6564
	Oil Age	hrs	Client Info		0	0	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	>100	6	6	10
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>2	1	2	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>2	0	0	<1
	Aluminum	ppm	ASTM D5185m	>25	4	4	1
	Lead	ppm	ASTM D5185m	>40	1	0	<1
	Copper	ppm	ASTM D5185m	>330	<1	<1	1
	Tin	ppm	ASTM D5185m	>15	<1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	15	5	6
	Potassium	ppm	ASTM D5185m	>20	4	3	1
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	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.1	8.0	9.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	22.0	25.2
	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	ppm	ASTM D5185m		6	0	1
The DN we will indicate a that they are in quitable elliptic we waiting in the	Boron	ppm	ASTM D5185m	2.5	58	43	37
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	2	0	<1
	Molybdenum	ppm	ASTM D5185m	0.7	42	44	38
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		442	462	492
	Calcium	ppm	ASTM D5185m		1768	1782	1554
	Phosphorus	ppm	ASTM D5185m		1035	941	885
	Zinc	ppm	ASTM D5185m		1127	1147	1007
	Sulfur	ppm	ASTM D5185m		3348	3210	2413
	Oxidation	Abs/.1mm	*ASTM D7414		19.8	20.7	23.1
	Base Number (BN)	mg KOH/g	ASTM D2896	10	9.0	9.1	
	Vies @ 10000	- 02		100	40-	10.0	

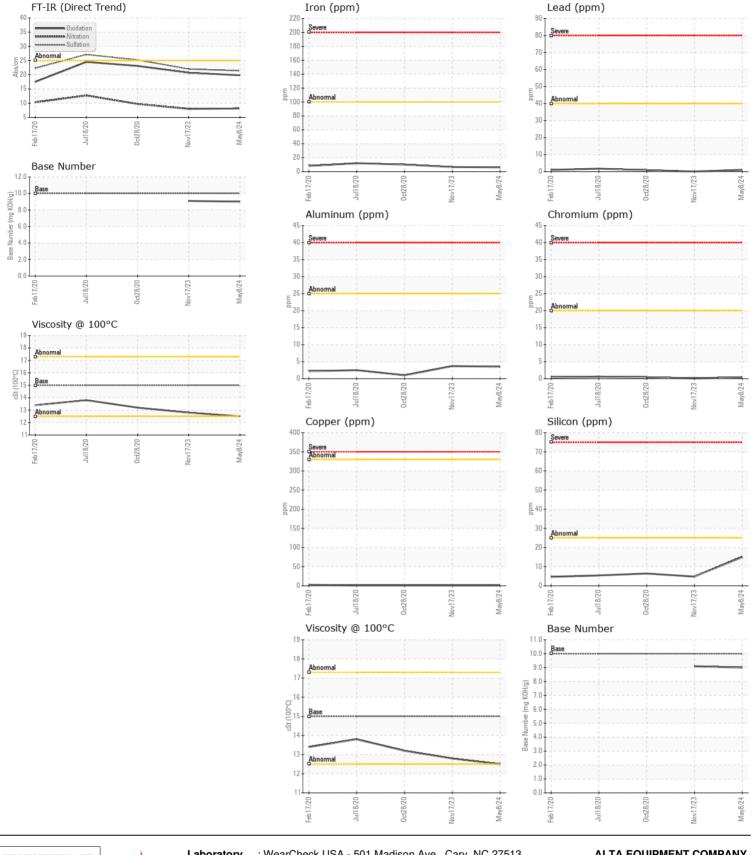
Visc @ 100°C cSt

12.8

13.2

12.5

ASTM D445 15.0



ALTA EQUIPMENT COMPANY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : VCP441183 Received 5151 DR MARTIN LUTHER KING BLVD : 13 May 2024 Lab Number : 06176851 Tested FORT MYERS, FL : 14 May 2024 Unique Number : 11022904 : 14 May 2024 - Wes Davis US 33905 Diagnosed Test Package : MOB 1 (Additional Tests: TBN) Contact: TODD LARK Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. tlark@altaequipfl.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (239)481-3302

Contact/Location: TODD LARK - VOLVO0090 Page 2 of 2