

Machine Id

VOLVO A45G 353495

Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		ASC0010363	ASC0006316	VCP413513
Resample at the next service interval to monitor.	Sample Date		Client Info		12 Apr 2024	04 Jan 2024	02 Oct 2023
	Machine Age	hrs	Client Info		1970	984	984
	Oil Age	hrs	Client Info		1970	984	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	Changed
	Filter Changed		Client Info		N/A	N/A	Changed
	Sample Status				NORMAL	NORMAL	ATTENTION
							40
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		12	2	12
	Chromium	ppm	ASTM D5185m		1	0	<1
	Nickel	ppm	ASTM D5185m	>2	3	<1	2
	Titanium	ppm	ASTM D5185m	0	<1	0	0
	Silver	ppm	ASTM D5185m		<1	0	1
	Aluminum	ppm	ASTM D5185m		3	<1	2
	Lead	ppm	ASTM D5185m		<1	<1	0
	Copper	ppm	ASTM D5185m		10	3	138
	Tin	ppm	ASTM D5185m	>15	2	0	2
	Vanadium	ppm	ASTM D5185m	NONE	<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	5	1	12
	Potassium	ppm	ASTM D5185m	>20	2	0	0
There is no indication of any contamination in the oil.	Fuel			>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	0.3	0.3	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	7.7	8.0	7.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	18.6	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	>0.2	NEG	NEG	NEG
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m		0	<1	2
	Boron	ppm	ASTM D5185m	25	3	4	28
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		60	57	47
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		845	918	468
	Calcium	ppm	ASTM D5185m		1068	1040	1789
	Phosphorus	ppm	ASTM D5185m		915	977	1018
	Zinc	ppm	ASTM D5185m		1136	1265	1206
	Sulfur	ppm	ASTM D5185m		2936	2944	3020
	Oxidation	Abs/.1mm	*ASTM D5105/11		14.6	14.4	19.3
	Base Number (BN)				7.7	7.9	8.5
				10		1.0	0.0

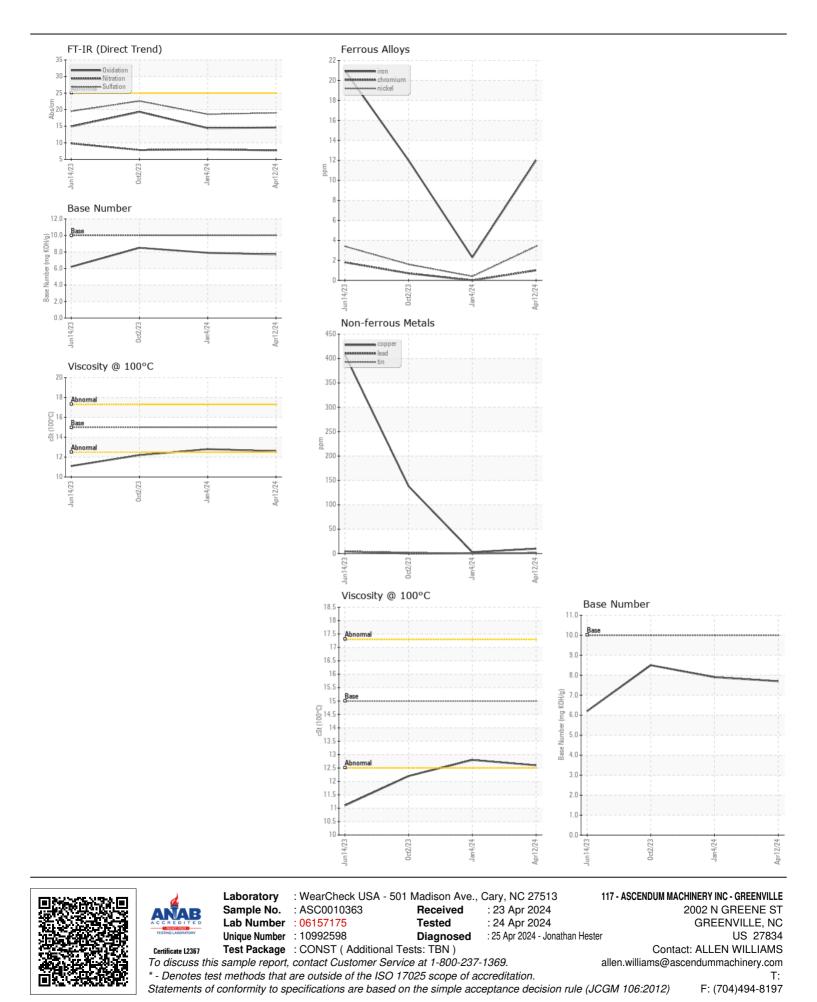
Visc @ 100°C cSt

ASTM D445 15.0

12.8

12.2

12.6



Submitted By: HUNTER DOLIVE Page 2 of 2