



VOLVO A40G 353159

Diesel Engine

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

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		VCP455108		
	Sample Date		Client Info		28 Mar 2024		
	Machine Age	hrs	Client Info		2692		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
WEAR Valve wear is indicated. All other component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	15		
	Chromium	ppm	ASTM D5185m		0		
	Nickel	ppm	ASTM D5185m		▲ 7		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>2	0		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m	>40	0		
	Copper	ppm	ASTM D5185m		5		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0		
	Fuel	%	ASTM D3524	>6.0	0.5		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	7.8		
	Sulfation	Abs/.1mm	*ASTM D7415		24.7		
	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	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		6		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron		ASTM D5185m	25	48		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		97		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		414		
	Calcium	ppm	ASTM D5185m		1580		
	Phosphorus	ppm	ASTM D5185m		1050		
	Zinc	ppm	ASTM D5185m		1315		
	Sulfur	ppm	ASTM D5185m		3622		
	Oxidation		*ASTM D310311		16.2		
	Onidation	ruga	AUTW D/414	~LJ	10.2	-	-

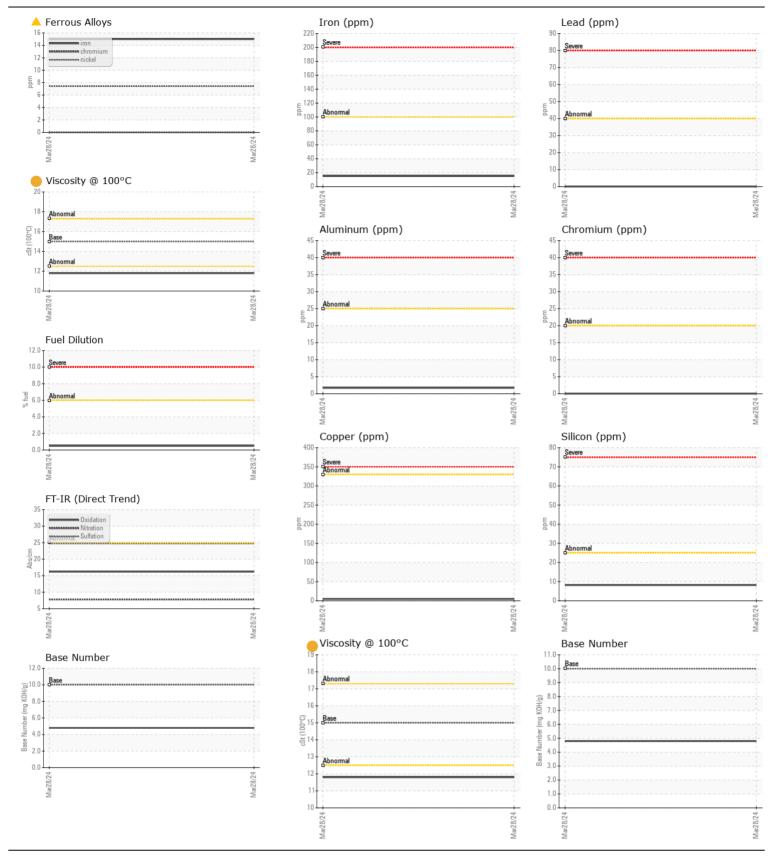
Base Number (BN) mg KOH/g ASTM D2896 10

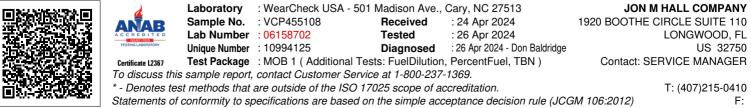
Visc @ 100°C cSt

ASTM D445 15.0

4.8

11.8





Contact/Location: SERVICE MANAGER - JONLON Page 2 of 2