

VOLVO L45 422284

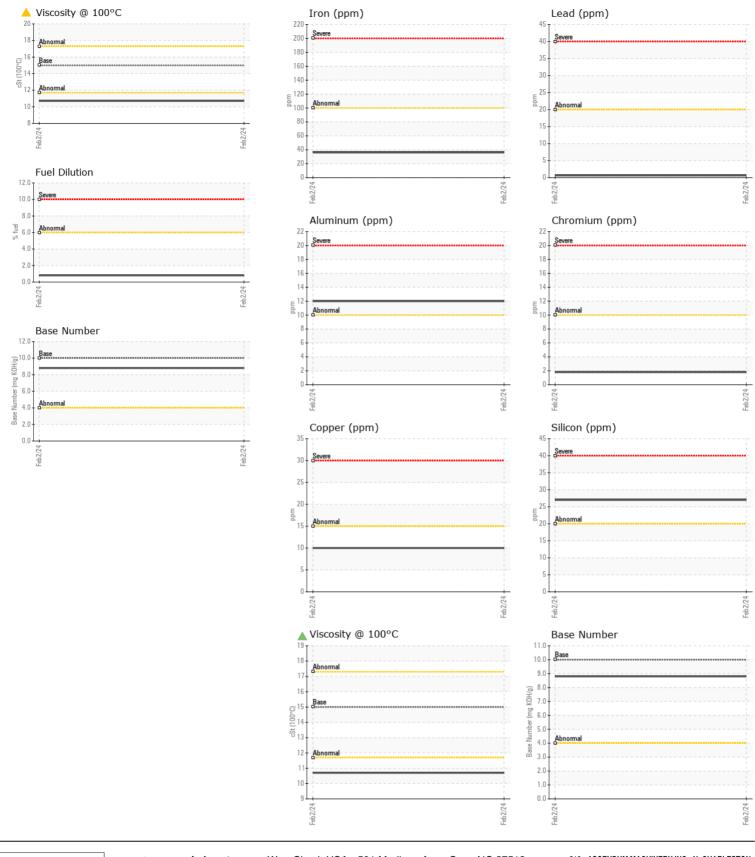
Component Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
THEOOMIMENDATION -	Sample Number	00101	Client Info	LITTICAUT	VCP441238		
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		02 Feb 2024		
	Machine Age	hrs	Client Info		610		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed	1110	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status		Onone into		ATTENTION		
WEAR	Iron	ppm	ASTM D5185m	>100	36		
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>10	2		
	Nickel	ppm	ASTM D5185m	>10	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>10	12		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m	>15	10		
	Tin	ppm	ASTM D5185m	>10	4		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	nnm	ASTM D5185m	. 20	27		
CONTAMINATION	Potassium	ppm	ASTM D5185m		0		
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	ppm %	ASTM D3185III ASTM D3524	>6.0	0.8		
	Water	/0	WC Method		NEG		
	Glycol		WC Method	20.1	NEG		
	Soot %	%	*ASTM D7844	~3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	7.5		
	Sulfation	Abs/.1mm	*ASTM D7415		21.8		
	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 The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Sodium	ppm	ASTM D5185m		3		
	Boron	ppm	ASTM D5185m		52		
	Barium	ppm	ASTM D5185m		3		
	Molybdenum	ppm	ASTM D5185m		33		
	Manganese	ppm	ASTM D5185m		8		
	Magnesium	ppm	ASTM D5185m		607		
	Calcium	ppm	ASTM D5185m	2057	1387		
	Phosphorus	ppm	ASTM D5185m		985		
	Zinc	ppm	ASTM D5185m		1093		
	Sulfur	ppm	ASTM D5185m		3265		
	Oxidation	Abs/.1mm	*ASTM D7414		18.8		
	Base Number (BN)	mg KOH/g	ASTM D2896	10	8.8		

Visc @ 100°C cSt ASTM D445 15.0

10.7



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