

## VOLVO L90H 626424

Component Diesel Engine

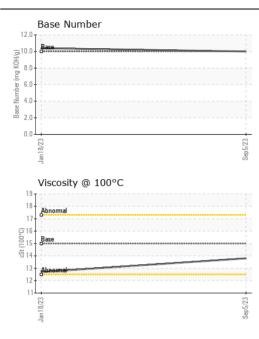
VÕLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

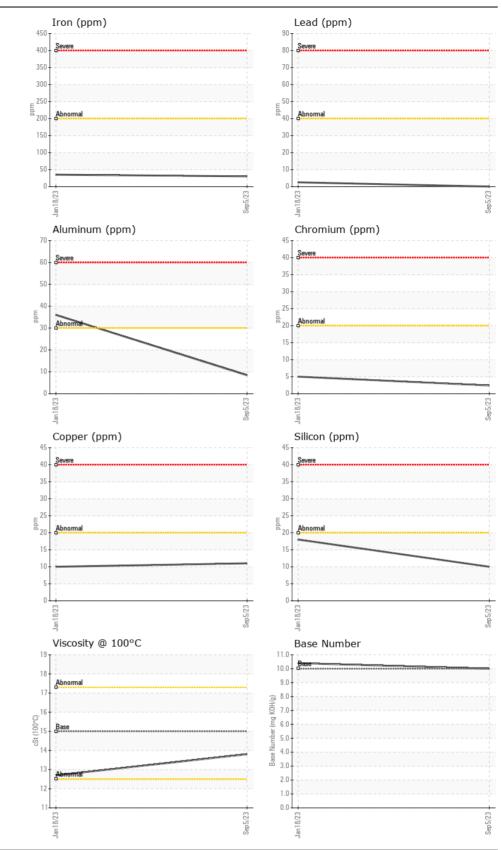
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		VCP420488	VCP381491	
	Sample Date		Client Info		05 Sep 2023	18 Jan 2023	
	Machine Age	hrs	Client Info		0	0	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>200	30	35	
TEAT	Chromium	ppm	ASTM D5185m		2	5	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		- <1	<1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m		8	▲ 36	
	Lead	ppm	ASTM D5185m		0	2	
	Copper	ppm	ASTM D5185m		11	10	
	Tin	ppm	ASTM D5185m	>20	2	3	
	Vanadium	ppm	ASTM D5185m		- <1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		10	18	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		<1	<1	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.6	0.3	
	Nitration	Abs/cm	*ASTM D7624	>20	8.1	6.9	
	Sulfation	Abs/.1mm	*ASTM D7415		21.2	21.4	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	4	
	Boron	ppm	ASTM D5185m	2.5	28	54	
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	<1	8	
	Molybdenum	ppm	ASTM D5185m	0.7	36	40	
	Manganese	ppm	ASTM D5185m	0.0	1	5	
	Magnesium	ppm	ASTM D5185m	256	433	598	
	Calcium	ppm	ASTM D5185m	2057	1816	1544	
	Phosphorus	ppm	ASTM D5185m	935	978	960	
	Zinc	ppm	ASTM D5185m	1223	1158	1190	
	Sulfur	ppm	ASTM D5185m	4079	3216	3877	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.3	18.1	
	Base Number (BN)	mg KOH/g	ASTM D2896	10	10.0	10.4	
	Vier C 10000	- 04		15.0	10.0	407	

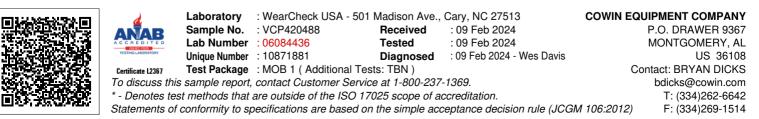
Visc @ 100°C cSt ASTM D445 15.0

12.7

13.8







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Contact/Location: BRYAN DICKS - VOLVO8532