

VOLVO 311394							
Component							
VOLVO ULTRA DIESEL ENGINE OIL 15W40 VE	)S-3 ( GAL	_)					
RECOMMENDATION	Test		Method	Limit/Alan	Current	Lliotorud	Listory O
RECOMMENDATION	Sample Number	UOM	Client Info	Limit/Abn	ASC0003337	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		27 Jun 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0 3124		
	Filter Age	hrs	Client Info		3124		
	Oil Changed	1110	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
	·····						
WEAR	Iron	ppm	ASTM D5185m		59		
The aluminum level is abnormal. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m		4		
	Nickel	ppm	ASTM D5185m	>2	<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		<u> </u>		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		3		
	Tin	ppm	ASTM D5185m	>15	<1		
	Vanadium	ppm	ASTM D5185m	NONE	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8		
	Potassium	ppm	ASTM D5185m		0		
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524		2.2		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	8.5		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance		*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	nnm	ASTM D5185m		2		
I LOID CONDITION	Boron	ppm ppm	ASTM D5185m	25	220		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium		ASTM D5185m		0		
	Molybdenum	ppm ppm	ASTM D5185m		116		
	Manganese	ppm	ASTM D5185m	0.0	1		
	Magnesium	ppm	ASTM D5185m		677		
	Calcium	ppm	ASTM D5185m	2057	1647		
	Phosphorus	ppm	ASTM D5185m	935	776		
	Zinc	ppm	ASTM D5185m	1223	918		
	Sulfur	ppm	ASTM D5185m		3139		
	Quided	AL / 4	*AOTH DECC	05	47.0		

Oxidation

Visc @ 100°C cSt

Abs/.1mm \*ASTM D7414 >25

ASTM D445 15.0

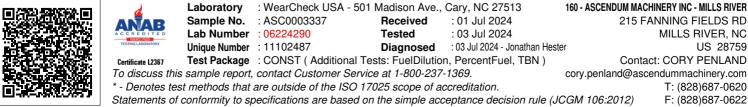
Base Number (BN) mg KOH/g ASTM D2896 10

17.3

7.8

12.2





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