

[634566]



VOLVO SD115B 236662

Component Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		VCP433436	VCP306431	VCP269712
Resample at the next service interval to monitor.	Sample Date		Client Info		28 Nov 2023	04 Feb 2021	17 Mar 2020
	Machine Age	hrs	Client Info		4274	1597	577
	Oil Age	hrs	Client Info		500	500	577
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
							NOTIVIAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	28	38	34
	Chromium	ppm	ASTM D5185m	>10	2	5	3
	Nickel	ppm	ASTM D5185m		<1	<1	1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m		6	4	12
	Lead	ppm		>20	1	<1	<1
	Copper	ppm	ASTM D5185m		2	5	35
	Tin	ppm	ASTM D5185m		_ <1	2	0
	Vanadium	ppm	ASTM D5185m	210	<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		Scalai	visuai			NONL	NONL
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	8	12	19
	Potassium	ppm	ASTM D5185m		4	<1	1
There is no indication of any contamination in the oil.	Fuel	le le	WC Method	>6.0	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	,	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	1.2	0.7	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	10.9	10.8	9.6
	Sulfation	Abs/.1mm	*ASTM D7415		22.0	22	20.3
	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	>0.1	NEG	NEG	NEG
		Jouran	10000	20.1		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		2	0	4
	Boron	ppm	ASTM D5185m	2.5	35	13	23
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	0.7	53	54	24
	Manganese	ppm	ASTM D5185m		<1	1	3
	Magnesium	ppm	ASTM D5185m		451	679	711
	Calcium	ppm		2057	1757	1653	1282
	Phosphorus	ppm	ASTM D5185m		975	1056	731
	Zinc	ppm		1223	1182	1186	849
	Sulfur	ppm	ASTM D5185m		3000	2606	2390
	Oxidation	Abs/.1mm	*ASTM D7414		20.1	20.6	16.9
	Base Number (BN)		ASTM D2896	-	9.8		
				10	3.5	10 7	10.0

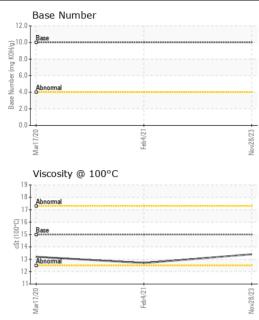
Visc @ 100°C cSt

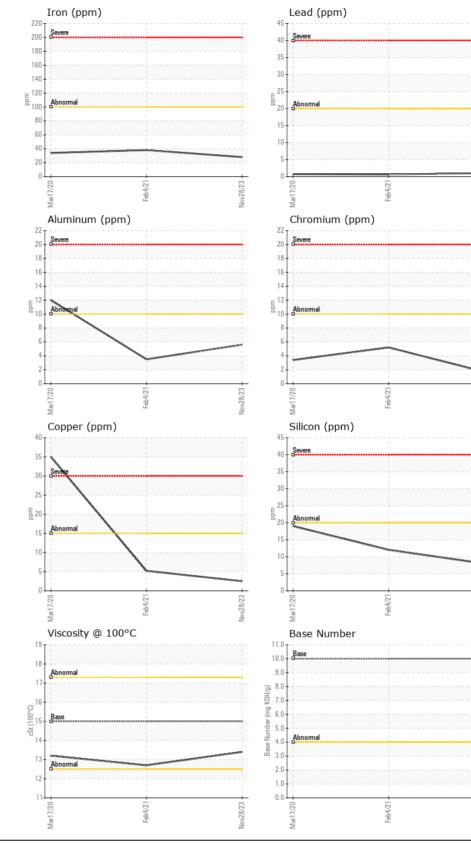
ASTM D445 15.0

12.7

13.4

13.2







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Contact/Location: PM Services ? - RIPTAM

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