



CONSTRUCTION EQUIPMENT

VOLVO L180H 5035 - DIESEL ENGINE



Sample No: VCP402835
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP402835	VCP402154	VCP415987	VCP343005
Sample Date	24 Oct 2023	16 Aug 2023	20 Jun 2023	09 Nov 2021
Machine Hours	11898	11420	11050	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.4	12.2	12.6	12.7
Base Number (BN)	mg KOH/g	10.4	10.0	10.7	---
Oxidation (PA)	%	79	78	76	80



CONTAMINATION

Soot %	%	0.1	0.2	0.1	0.2
Nitration (PA)	%	51	56	47	54
Sulfation (PA)	%	60	59	60	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	3	4	3
Sodium	ppm	3	2	2	3
Potassium	ppm	3	0	2	<1



WEAR METALS

Iron	ppm	4	3	3	3
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	<1	1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	3	<1	0	1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	49	45	46	49
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1546	1695	1762	1718
Magnesium	ppm	493	542	566	502
Zinc	ppm	1054	1083	1147	1017
Phosphorus	ppm	954	903	961	971
Barium	ppm	0	0	4	0
Boron	ppm	48	40	62	47

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: VOLVO0090
Unique No: 10713545
Signed: Wes Davis
Report Date: 27 Oct 2023



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VOLVO GRAPHS

