



CONSTRUCTION EQUIPMENT

VOLVO L180H 5035 - DIESEL ENGINE



Sample No: VCP422082
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP422082	VCP402835	VCP402154	VCP415987
Sample Date	05 Dec 2023	24 Oct 2023	16 Aug 2023	20 Jun 2023
Machine Hours	12241	11898	11420	11050
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	12.4	12.2	12.6
Base Number (BN)	mg KOH/g	10.1	10.4	10.0	10.7
Oxidation (PA)	%	77	79	78	76

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.2	0.1
Nitration (PA)	%	48	51	56	47
Sulfation (PA)	%	58	60	59	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	3	4
Sodium	ppm	<1	3	2	2
Potassium	ppm	0	3	0	2

WEAR METALS

Iron	ppm	1	4	3	3
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	<1	<1	1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	<1	3	<1	0
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	42	49	45	46
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	<1	<1	0

ADDITIVES

Calcium	ppm	1604	1546	1695	1762
Magnesium	ppm	473	493	542	566
Zinc	ppm	1049	1054	1083	1147
Phosphorus	ppm	885	954	903	961
Barium	ppm	0	0	0	4
Boron	ppm	55	48	40	62

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: 10780112
Signed: Wes Davis
Report Date: 12 Dec 2023



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GRAPHS

