



CONSTRUCTION EQUIPMENT

VOLVO L180H 5717 - DIESEL ENGINE



Sample No: VCP455439
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP455439	VCP449620	VCP436872	VCP416380
Sample Date	09 Jul 2024	08 May 2024	24 Feb 2024	13 Nov 2023
Machine Hours	3138	2747	2234	1568
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	12.7	12.8	13.2	12.6
Base Number (BN)	mg KOH/g	10.1	9.9	9.5	10.4
Oxidation (PA)	%	77	78	65	78



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	50	52	45	47
Sulfation (PA)	%	59	60	54	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	7	5	5
Sodium	ppm	3	<1	1	0
Potassium	ppm	3	2	2	2



WEAR METALS

Iron	ppm	4	5	5	3
Copper	ppm	6	2	1	2
Lead	ppm	0	<1	<1	0
Tin	ppm	<1	1	<1	0
Aluminum	ppm	1	2	1	1
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	40	61	48	50
Nickel	ppm	<1	<1	1	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	1676	2243	1224	1554
Magnesium	ppm	479	690	605	469
Zinc	ppm	1117	1481	1053	1044
Phosphorus	ppm	972	1357	874	883
Barium	ppm	0	2	1	0
Boron	ppm	44	65	31	63

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: 11115404
Signed: Wes Davis
Report Date: 10 Jul 2024



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GRAPHS

