



CONSTRUCTION EQUIPMENT

VOLVO L180H 5479 - DIESEL ENGINE



Sample No: VCP446530
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP446530	VCP436146	VCP430677	VCP415840
Sample Date	18 Mar 2024	19 Dec 2023	02 Oct 2023	22 Jun 2023
Machine Hours	5534	5127	4842	4500
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.6	11.5	11.7
Base Number (BN)	mg KOH/g	10.0	10.1	8.1	9.3
Oxidation (PA)	%	75	76	65	59

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.3	0.2
Nitration (PA)	%	53	52	74	68
Sulfation (PA)	%	57	59	55	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.3
Silicon	ppm	3	6	8	6
Sodium	ppm	3	7	13	9
Potassium	ppm	0	<1	4	4



WEAR METALS

Iron	ppm	3	2	11	7
Copper	ppm	<1	3	8	3
Lead	ppm	0	0	<1	2
Tin	ppm	0	<1	1	1
Aluminum	ppm	<1	1	2	0
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	46	50	54	54
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	1	1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1725	1692	1581	1583
Magnesium	ppm	565	566	755	797
Zinc	ppm	1143	1175	1091	1098
Phosphorus	ppm	968	1032	896	915
Barium	ppm	0	0	0	4
Boron	ppm	38	57	25	40

Depot: VOLVO0090
Unique No: 10941509
Signed: Wes Davis
Report Date: 26 Mar 2024

VOLVO **GRAPHS**

