



CONSTRUCTION EQUIPMENT

7036 SWANNEE VOLVO L180H 5419 - DIESEL ENGINE



Sample No: VCP438164
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 7036 SWANNEE



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SAMPLE INFORMATION

Sample Number	VCP438164	VCP413222	VCP417255	VCP404980
Sample Date	18 Jan 2024	18 Jul 2023	02 Jun 2023	14 Apr 2023
Machine Hours	11783	9778	9285	8764
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	12.8	12.5	12.6	12.4
Base Number (BN)	mg KOH/g	8.8	10.2	10.3	8.7
Oxidation (PA)	%	79	79	80	78



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	68	53	53	61
Sulfation (PA)	%	58	60	61	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	1.3
Silicon	ppm	3	3	4	4
Sodium	ppm	0	3	2	3
Potassium	ppm	0	0	0	0



WEAR METALS

Iron	ppm	0	2	3	4
Copper	ppm	1	2	2	2
Lead	ppm	<1	0	0	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	2	<1	<1	<1
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	44	43	43	36
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	1600	1803	1745	1142
Magnesium	ppm	434	525	524	444
Zinc	ppm	1072	1134	1110	783
Phosphorus	ppm	926	956	926	723
Barium	ppm	0	0	0	0
Boron	ppm	37	48	45	30

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: VOLVO0093
Unique No: 10846867
Signed: Wes Davis
Report Date: 25 Jan 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

