



CONSTRUCTION EQUIPMENT

23849 VOLVO L35G 3424219 - DIESEL ENGINE



Sample No: VCP405646
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 23849



SAMPLE INFORMATION

Sample Number	VCP405646	VCP364956	VCP309160	VCP282250
Sample Date	04 Aug 2023	28 Dec 2022	15 Jul 2021	06 Nov 2020
Machine Hours	1124	2808	1832	1379
Oil Hours	500	500	0	0
Oil Changed	Changed	Changed	N/A	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.5	13.3	13.0	13.5
Base Number (BN)	mg KOH/g	9.4	9.7	---	---
Oxidation (PA)	%	85	84	92	76

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

Soot %	%	0.1	0.1	0.1	0
Nitration (PA)	%	69	70	75	39
Sulfation (PA)	%	59	59	67	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	5	9
Sodium	ppm	0	2	3	<1
Potassium	ppm	0	0	0	<1



WEAR METALS

Iron	ppm	6	5	5	2
Copper	ppm	0	1	23	0
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	0	1	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	38	44	41	38
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1807	1761	1691	1607
Magnesium	ppm	565	549	496	452
Zinc	ppm	1276	1066	1116	1125
Phosphorus	ppm	997	926	916	887
Barium	ppm	0	0	0	0
Boron	ppm	37	38	42	72

Depot: VOLVO3387
Unique No: 10605181
Signed: Wes Davis
Report Date: 16 Aug 2023



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VOLVO GRAPHS

