



CONSTRUCTION EQUIPMENT

SPM608087 VOLVO L180H 5413 - DIESEL ENGINE



Sample No: VCP439740
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM608087



SAMPLE INFORMATION

Sample Number	VCP439740	VCP425054	VCP376855	VCP359453
Sample Date	29 Sep 2023	20 May 2023	20 Jul 2022	18 Apr 2022
Machine Hours	6660	5589	4384	3806
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	N/A	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT

5985 COURT STREET ROAD
 SYRACUSE, NY
 US 13206
 Contact: JIM STRIGLE
 JIM.STRIGLE@ALTG.COM
 T: (315)437-2611
 F: (315)434-9471

OIL CONDITION

Visc @ 100°C	cSt	12.8	13.0	13.2	12.9
Base Number (BN)	mg KOH/g	9.6	9.8	11.2	9.5
Oxidation (PA)	%	84	84	88	94

CONTAMINATION

Soot %	%	0.2	0.2	0.2	0.3
Nitration (PA)	%	64	66	70	83
Sulfation (PA)	%	62	63	66	70
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	5	3	7
Sodium	ppm	4	0	<1	1
Potassium	ppm	2	2	0	0

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.

WEAR METALS

Iron	ppm	3	6	5	10
Copper	ppm	<1	2	3	13
Lead	ppm	<1	<1	1	2
Tin	ppm	<1	<1	1	2
Aluminum	ppm	<1	0	2	2
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	42	52	44	42
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	5	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1842	2069	1645	1793
Magnesium	ppm	560	573	529	561
Zinc	ppm	1223	1318	1119	1178
Phosphorus	ppm	977	1118	918	1023
Barium	ppm	0	0	0	0
Boron	ppm	36	53	45	19

Depot: VOLV00142
Unique No: 10675060
Signed: Wes Davis
Report Date: 04 Oct 2023



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VOLVO GRAPHS

