



CONSTRUCTION EQUIPMENT

SPM608075 MILBURN DE VOLVO L60G 1630 - DIESEL ENGINE



Sample No: VCP427370
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM608075 MILBURN DE



SAMPLE INFORMATION

Sample Number	VCP427370	VCP372531	VCP306262	VCP181729
Sample Date	19 Oct 2023	26 Jul 2022	23 Feb 2021	14 Jan 2016
Machine Hours	3196	2978	0	1003
Oil Hours	0	0	0	460
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.6	13.8	12.9	13.5
Base Number (BN)	mg KOH/g	9.3	12.3	---	---
Oxidation (PA)	%	57	80	61	48

CONTAMINATION

Soot %	%	0.2	0.1	0.3	0.1
Nitration (PA)	%	52	47	65	50
Sulfation (PA)	%	49	63	54	44
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	8	9	17
Sodium	ppm	3	2	0	4
Potassium	ppm	2	<1	<1	0

WEAR METALS

Iron	ppm	47	12	61	106
Copper	ppm	2	<1	3	6
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	55	24	49	31
Chromium	ppm	2	<1	4	4
Molybdenum	ppm	56	42	68	42
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	2
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1049	1626	1271	2264
Magnesium	ppm	894	559	849	544
Zinc	ppm	1183	1187	1120	1348
Phosphorus	ppm	995	992	1041	1106
Barium	ppm	0	0	0	0
Boron	ppm	5	78	76	44

Diagnosis

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The aluminum level is abnormal. All other 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 acceptable for the time in service.

Depot: VOLVO8885
Unique No: 10712790
Signed: Jonathan Hester
Report Date: 31 Oct 2023



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GRAPHS

