



CONSTRUCTION EQUIPMENT

SWA266535 VOLVO L180H 5317 - DIESEL ENGINE



Sample No: VCP425191
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SWA266535



SAMPLE INFORMATION

Sample Number	VCP425191	VCP400648	VCP400787	VCP367750
Sample Date	22 May 2023	08 Mar 2023	23 Jan 2023	16 Dec 2022
Machine Hours	7647	7096	6801	6548
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	ATTENTION

ALTA EQUIPMENT

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 SYRACUSE, NY
 US 13206
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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.2	▲ 12.2	▲ 12.3
Base Number (BN)	mg KOH/g	10.1	10.9	10.7	11.3
Oxidation (PA)	%	83	79	80	86



CONTAMINATION

Water	%	---	---	0.105	---
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	53	52	52	57
Sulfation (PA)	%	63	61	60	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	1.0
Silicon	ppm	8	6	5	5
Sodium	ppm	2	2	0	0
Potassium	ppm	4	0	<1	1



WEAR METALS

Iron	ppm	2	2	2	2
Copper	ppm	<1	0	<1	1
Lead	ppm	2	0	1	3
Tin	ppm	<1	0	<1	0
Aluminum	ppm	2	0	1	<1
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	38	37	42	41
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1711	1638	1718	1737
Magnesium	ppm	559	477	506	471
Zinc	ppm	1181	1082	1165	1089
Phosphorus	ppm	917	829	949	921
Barium	ppm	0	0	0	0
Boron	ppm	55	55	66	57

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: VOLVO0142
Unique No: 10485835
Signed: Wes Davis
Report Date: 25 May 2023



CONSTRUCTION EQUIPMENT



GRAPHS

