



CONSTRUCTION EQUIPMENT

SW1020842 C&L VOLVO P4410B 378547 - DIESEL ENGINE



Sample No: VCP397625
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SW1020842 C&L



SAMPLE INFORMATION

Sample Number	VCP397625	VCP353812	VCP292639	---
Sample Date	27 Jun 2023	13 Jul 2022	12 Oct 2020	---
Machine Hours	691	1114	644	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.8	13.5	14.4	---
Base Number (BN)	mg KOH/g	8.9	10.8	---	---
Oxidation (PA)	%	68	87	69	---



CONTAMINATION

Soot %	%	0.4	0.4	0.2	---
Nitration (PA)	%	62	75	54	---
Sulfation (PA)	%	55	65	58	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	8	4	---
Sodium	ppm	2	<1	4	---
Potassium	ppm	2	3	6	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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	37	19	9	---
Copper	ppm	3	2	1	---
Lead	ppm	0	<1	<1	---
Tin	ppm	2	2	<1	---
Aluminum	ppm	14	10	0	---
Chromium	ppm	3	2	<1	---
Molybdenum	ppm	53	33	8	---
Nickel	ppm	<1	0	0	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	1	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1408	1853	1991	---
Magnesium	ppm	926	379	105	---
Zinc	ppm	1399	1164	1049	---
Phosphorus	ppm	1095	937	938	---
Barium	ppm	0	0	0	---
Boron	ppm	24	61	179	---

Depot: VOLVO6174
Unique No: 10545735
Signed: Wes Davis
Report Date: 05 Jul 2023



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GRAPHS

