



CONSTRUCTION EQUIPMENT

W02007335 VOLVO L70H 624544 - DIESEL ENGINE



Sample No: VCP418820
Oil Type: MOBIL 15W40
Job No: W02007335



SAMPLE INFORMATION

Sample Number	VCP418820	VCP375120	VCP350475	---
Sample Date	11 Jul 2023	21 Sep 2022	09 Feb 2022	---
Machine Hours	1524	1061	479	---
Oil Hours	500	500	479	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ATTENTION	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.0	▲ 11.8	12.7	---
Base Number (BN)	mg KOH/g	10.4	10.0	11.2	---
Oxidation (PA)	%	76	81	78	---

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	0.3	0.1	---
Nitration (PA)	%	48	68	57	---
Sulfation (PA)	%	60	63	64	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	0.8	<1.0	---
Silicon	ppm	5	8	14	---
Sodium	ppm	2	2	4	---
Potassium	ppm	3	2	0	---



WEAR METALS

Iron	ppm	4	17	21	---
Copper	ppm	0	3	9	---
Lead	ppm	<1	<1	1	---
Tin	ppm	<1	2	2	---
Aluminum	ppm	2	6	12	---
Chromium	ppm	<1	2	4	---
Molybdenum	ppm	47	46	38	---
Nickel	ppm	<1	<1	0	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	<1	0	---
Manganese	ppm	<1	1	4	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	1811	1605	1503	---
Magnesium	ppm	610	521	599	---
Zinc	ppm	1025	1092	1101	---
Phosphorus	ppm	871	908	956	---
Barium	ppm	0	0	0	---
Boron	ppm	91	46	66	---

Depot: VOLVO0002
Unique No: 10560870
Signed: Wes Davis
Report Date: 17 Jul 2023



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GRAPHS

