



CONSTRUCTION EQUIPMENT

VOLVO L220H 3555 - DIESEL ENGINE



Sample No: VCP440147
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP440147	VCP406607	VCP401920	---
Sample Date	29 Feb 2024	23 Jan 2024	13 Dec 2023	---
Machine Hours	1502	984	505	---
Oil Hours	0	0	505	---
Oil Changed	Changed	Changed	N/A	---
Sample Status	NORMAL	ATTENTION	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.1	11.2	---
Base Number (BN)	mg KOH/g	8.9	8.1	5.6	---
Oxidation (PA)	%	60	61	61	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.2	0.1	0.2	---
Nitration (PA)	%	60	61	73	---
Sulfation (PA)	%	53	54	52	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	0.3	---
Silicon	ppm	6	7	25	---
Sodium	ppm	0	1	3	---
Potassium	ppm	3	0	3	---

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	8	5	10	---
Copper	ppm	11	55	307	---
Lead	ppm	<1	2	<1	---
Tin	ppm	1	2	3	---
Aluminum	ppm	2	<1	2	---
Chromium	ppm	<1	<1	0	---
Molybdenum	ppm	68	68	84	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	<1	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	2	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1176	1164	1989	---
Magnesium	ppm	954	804	101	---
Zinc	ppm	1275	1153	1138	---
Phosphorus	ppm	1104	1003	936	---
Barium	ppm	0	0	0	---
Boron	ppm	6	7	45	---

Depot: VOLVO1835
Unique No: 10940259
Signed: Wes Davis
Report Date: 22 Mar 2024



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GRAPHS

