



CONSTRUCTION EQUIPMENT

SW1028438 JJ SPRAGUE VOLVO L150H 7118 - DIESEL ENGINE



Sample No: VCP437529
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SW1028438 JJ SPRAGUE



SAMPLE INFORMATION

Sample Number	VCP437529	VCP417485	VCP369009	---
Sample Date	11 Jan 2024	22 Aug 2023	26 Apr 2023	---
Machine Hours	1730	1407	626	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Not Changd	---
Sample Status	NORMAL	ABNORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.6	11.1	11.2	---
Base Number (BN)	mg KOH/g	8.2	4.8	4.7	---
Oxidation (PA)	%	64	70	59	---

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

Water	%	NEG	NEG	NEG	---
Soot %	%	0.2	0.3	0.2	---
Nitration (PA)	%	62	78	74	---
Sulfation (PA)	%	55	63	51	---
Glycol	%	0.0	NEG	0.0	---
Fuel	%	<1.0	<1.0	0.5	---
Silicon	ppm	8	25	25	---
Sodium	ppm	3	5	2	---
Potassium	ppm	<1	6	3	---



WEAR METALS

Iron	ppm	8	22	14	---
Copper	ppm	69	258	427	---
Lead	ppm	1	6	4	---
Tin	ppm	1	4	3	---
Aluminum	ppm	2	3	2	---
Chromium	ppm	0	<1	0	---
Molybdenum	ppm	55	85	89	---
Nickel	ppm	<1	1	0	---
Titanium	ppm	<1	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	4	3	---
Vanadium	ppm	<1	<1	0	---



ADDITIVES

Calcium	ppm	1262	2199	2297	---
Magnesium	ppm	797	103	27	---
Zinc	ppm	1232	1285	1298	---
Phosphorus	ppm	1052	1015	1018	---
Barium	ppm	0	0	0	---
Boron	ppm	10	17	46	---

Depot: VOLVO6174
Unique No: 10836653
Signed: Wes Davis
Report Date: 01 Feb 2024



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GRAPHS

