



CONSTRUCTION EQUIPMENT

SW-30300-2 STAKER VOLVO L220H 2927 - DIESEL ENGINE



Sample No: VCP440869
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SW-30300-2 STAKER



SAMPLE INFORMATION

Sample Number	VCP440869	VCP319419	---	---
Sample Date	21 Feb 2024	13 Jul 2021	---	---
Machine Hours	10446	7134	---	---
Oil Hours	500	900	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	█ 12.2	---	---
Base Number (BN)	mg KOH/g	█ 7.2	---	---	---
Oxidation (PA)	%	58	69	---	---

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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.1	█ 0.4	---	---
Nitration (PA)	%	62	67	---	---
Sulfation (PA)	%	52	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 9	█ 4	---	---
Sodium	ppm	█ 4	█ 0	---	---
Potassium	ppm	█ 2	█ <1	---	---



WEAR METALS

Iron	ppm	█ 9	█ 6	---	---
Copper	ppm	█ 2	█ 2	---	---
Lead	ppm	█ 1	█ <1	---	---
Tin	ppm	█ 1	█ <1	---	---
Aluminum	ppm	█ 4	█ 0	---	---
Chromium	ppm	█ 1	█ 0	---	---
Molybdenum	ppm	█ 95	█ 24	---	---
Nickel	ppm	█ 2	█ 0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	█ 0	0	---	---
Manganese	ppm	█ 1	█ <1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 2005	█ 475	---	---
Magnesium	ppm	█ 757	█ 336	---	---
Zinc	ppm	█ 1632	█ 460	---	---
Phosphorus	ppm	█ 1257	█ 394	---	---
Barium	ppm	█ 2	█ 0	---	---
Boron	ppm	█ 34	█ 3	---	---

Depot: VOLVO8770
Unique No: 10900924
Signed: Don Baldrige
Report Date: 29 Feb 2024



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GRAPHS

