



CONSTRUCTION EQUIPMENT

1032454 SUNGROW VOLVO L90H 625075 - DIESEL ENGINE



Sample No: VCP358150
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 1032454 SUNGROW



SAMPLE INFORMATION

Sample Number	VCP358150	VCP248238	VCP257398	---
Sample Date	02 Apr 2024	11 Dec 2019	08 Oct 2019	---
Machine Hours	10045	1040	560	---
Oil Hours	445	500	560	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.3	14.2	12.3	---
Base Number (BN)	mg KOH/g	10.1	---	---	---
Oxidation (PA)	%	87	72	73	---

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 %	%	0.7	0.2	0.2	---
Nitration (PA)	%	75	64	58	---
Sulfation (PA)	%	65	57	59	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	7	6	14	---
Sodium	ppm	2	3	5	---
Potassium	ppm	1	2	4	---



WEAR METALS

Iron	ppm	20	12	27	---
Copper	ppm	5	2	8	---
Lead	ppm	1	0	<1	---
Tin	ppm	<1	1	0	---
Aluminum	ppm	8	2	4	---
Chromium	ppm	1	1	2	---
Molybdenum	ppm	44	23	34	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	2	4	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	1907	1482	1572	---
Magnesium	ppm	591	528	648	---
Zinc	ppm	1291	767	892	---
Phosphorus	ppm	1042	725	809	---
Barium	ppm	0	<1	<1	---
Boron	ppm	32	43	31	---

Depot: VOLVO8770
Unique No: 10970495
Signed: Wes Davis
Report Date: 12 Apr 2024



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GRAPHS

