



CONSTRUCTION EQUIPMENT

SWO134910 IAA VOLVO L90H 626672 - DIESEL ENGINE



Sample No: VCP421876
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO134910 IAA



SAMPLE INFORMATION

Sample Number	VCP421876	VCP420744	VCP420728	---
Sample Date	07 Feb 2024	28 Dec 2023	23 Aug 2023	---
Machine Hours	2059	1802	1154	---
Oil Hours	0	500	1154	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

THE GW VAN KEPPEL COMPANY

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OIL CONDITION

Visc @ 100°C	cSt	12.8	13.3	14.7	---
Base Number (BN)	mg KOH/g	10.0	9.5	7.6	---
Oxidation (PA)	%	94	98	105	---

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 %	%	0.4	0.6	1.4	---
Nitration (PA)	%	65	80	116	---
Sulfation (PA)	%	68	68	75	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	8	19	---
Sodium	ppm	2	4	8	---
Potassium	ppm	0	<1	4	---



WEAR METALS

Iron	ppm	9	20	93	---
Copper	ppm	<1	2	19	---
Lead	ppm	<1	<1	9	---
Tin	ppm	1	1	6	---
Aluminum	ppm	3	6	22	---
Chromium	ppm	<1	2	8	---
Molybdenum	ppm	48	45	38	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	1	6	---
Vanadium	ppm	<1	0	<1	---



ADDITIVES

Calcium	ppm	2073	1896	1501	---
Magnesium	ppm	465	497	561	---
Zinc	ppm	1132	1136	1059	---
Phosphorus	ppm	980	951	814	---
Barium	ppm	0	0	0	---
Boron	ppm	80	54	14	---

Depot: VOLVO0052
Unique No: 10874375
Signed: Wes Davis
Report Date: 13 Feb 2024



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GRAPHS

