



CONSTRUCTION EQUIPMENT

LKQ CLEARWATER VOLVO L90H 624244 - DIESEL ENGINE



Sample No: VCP435797
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: LKQ CLEARWATER



SAMPLE INFORMATION

Sample Number	VCP435797	VCP420219	VCP367156	---
Sample Date	25 Sep 2023	17 Apr 2023	08 Sep 2022	---
Machine Hours	9048	8410	7244	---
Oil Hours	0	500	500	---
Oil Changed	Changed	N/A	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.8	13.2	14.0	---
Base Number (BN)	mg KOH/g	9.6	8.9	5.9	---
Oxidation (PA)	%	78	84	92	---

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

Soot %	%	0.5	0.8	1.4	---
Nitration (PA)	%	63	84	111	---
Sulfation (PA)	%	59	62	86	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	7	10	---
Sodium	ppm	2	3	2	---
Potassium	ppm	1	3	6	---



WEAR METALS

Iron	ppm	6	16	40	---
Copper	ppm	<1	1	4	---
Lead	ppm	<1	<1	2	---
Tin	ppm	<1	1	<1	---
Aluminum	ppm	11	11	15	---
Chromium	ppm	<1	1	2	---
Molybdenum	ppm	36	42	28	---
Nickel	ppm	0	<1	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	1556	1658	1964	---
Magnesium	ppm	426	507	181	---
Zinc	ppm	1046	1143	1101	---
Phosphorus	ppm	892	938	885	---
Barium	ppm	0	0	0	---
Boron	ppm	41	18	10	---

Depot: VOLVO0093
Unique No: 10714111
Signed: Wes Davis
Report Date: 28 Oct 2023



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GRAPHS

