



CONSTRUCTION EQUIPMENT

9828 LKQ CURTIS BAY VOLVO L90H 623915 - DIESEL ENGINE



Sample No: VCP413935
Oil Type: CHEVRON 15W40
Job No: 9828 LKQ CURTIS BAY



SAMPLE INFORMATION

Sample Number	VCP413935	VCP408880	VCP393456	VCP390018
Sample Date	18 Oct 2023	27 Jun 2023	12 Jan 2023	13 Oct 2022
Machine Hours	10514	9926	9020	8591
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.2	13.5	13.3
Base Number (BN)	mg KOH/g	5.9	7.2	8.0	7.8
Oxidation (PA)	%	61	67	63	76



CONTAMINATION

Soot %	%	0.4	0.5	0.3	0.5
Nitration (PA)	%	59	72	58	81
Sulfation (PA)	%	58	63	60	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	4	4
Sodium	ppm	3	0	1	2
Potassium	ppm	0	2	<1	3



WEAR METALS

Iron	ppm	2	5	3	7
Copper	ppm	<1	<1	0	<1
Lead	ppm	0	0	<1	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	3	4	3	7
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	85	97	102	122
Nickel	ppm	0	0	0	0
Titanium	ppm	3	1	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1350	1402	1532	1412
Magnesium	ppm	409	445	526	510
Zinc	ppm	1257	1117	1138	1054
Phosphorus	ppm	977	958	933	870
Barium	ppm	0	0	0	0
Boron	ppm	336	310	327	177

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.

Depot: VOLV00150
Unique No: 10711607
Signed: Wes Davis
Report Date: 26 Oct 2023



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GRAPHS

