



CONSTRUCTION EQUIPMENT

9775 LKQ CURTIS BAY VOLVO L90H 625992 - DIESEL ENGINE



Sample No: VCP413654
Oil Type: CHEVRON 15W40
Job No: 9775 LKQ CURTIS BAY



SAMPLE INFORMATION

Sample Number	VCP413654	VCP408909	VCP393418	VCP390005
Sample Date	18 Oct 2023	27 Jun 2023	12 Jan 2023	13 Oct 2022
Machine Hours	2627	2281	1805	1256
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	13.5	13.4	13.4	13.3
Base Number (BN)	mg KOH/g	7.9	8.3	8.4	10.0
Oxidation (PA)	%	60	63	64	80



CONTAMINATION

Soot %	%	0.2	0.3	0.3	0.4
Nitration (PA)	%	49	61	58	78
Sulfation (PA)	%	58	61	61	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	6	14
Sodium	ppm	2	0	<1	2
Potassium	ppm	0	2	1	3



WEAR METALS

Iron	ppm	13	19	29	83
Copper	ppm	<1	1	2	10
Lead	ppm	0	0	1	1
Tin	ppm	0	<1	<1	3
Aluminum	ppm	4	5	5	27
Chromium	ppm	<1	<1	1	7
Molybdenum	ppm	85	98	94	52
Nickel	ppm	0	<1	0	0
Titanium	ppm	3	1	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	4
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1386	1451	1552	1449
Magnesium	ppm	414	459	541	713
Zinc	ppm	1281	1123	1122	1208
Phosphorus	ppm	978	952	914	1010
Barium	ppm	0	0	0	0
Boron	ppm	409	396	321	25

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: 10711610
Signed: Wes Davis
Report Date: 26 Oct 2023



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GRAPHS

