



CONSTRUCTION EQUIPMENT

9816 LKQ CURTIS BAY VOLVO L90F 71862 - DIESEL ENGINE



Sample No: VCP426372
Oil Type: CHEVRON 15W40
Job No: 9816 LKQ CURTIS BAY



SAMPLE INFORMATION

Sample Number	VCP426372	VCP423098	VCP392572	VCP347572
Sample Date	18 Oct 2023	27 Jun 2023	12 Jan 2023	28 Apr 2022
Machine Hours	17714	17016	16151	15766
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	14.3	14.7	13.9	14.0
Base Number (BN)	mg KOH/g	8.0	6.9	8.4	9.3
Oxidation (PA)	%	79	97	71	89



CONTAMINATION

Soot %	%	0.2	0.3	0.2	0.2
Nitration (PA)	%	70	93	65	85
Sulfation (PA)	%	64	74	64	73
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	6	6
Sodium	ppm	3	0	0	2
Potassium	ppm	0	2	3	0



WEAR METALS

Iron	ppm	3	9	6	8
Copper	ppm	0	1	2	<1
Lead	ppm	0	5	5	12
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	1	2	2	3
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	79	108	127	126
Nickel	ppm	0	<1	<1	0
Titanium	ppm	2	2	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	1289	1526	1593	1590
Magnesium	ppm	697	492	581	717
Zinc	ppm	1339	1191	1154	912
Phosphorus	ppm	1018	964	891	776
Barium	ppm	0	0	0	0
Boron	ppm	126	230	355	219

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: 10711606
Signed: Wes Davis
Report Date: 27 Oct 2023



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GRAPHS

