



CONSTRUCTION EQUIPMENT

9545 LKQ CURTIS BAY VOLVO L120H 633137 - DIESEL ENGINE



Sample No: VCP413836
Oil Type: CHEVRON 15W40
Job No: 9545 LKQ CURTIS BAY



SAMPLE INFORMATION

Sample Number	VCP413836	VCP408854	VCP387953	VCP386330
Sample Date	24 Aug 2023	06 Jun 2023	24 Mar 2023	28 Oct 2022
Machine Hours	1507	1009	525	2
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	ATTENTION	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.1	▲ 11.9	▲ 6.38
Base Number (BN)	mg KOH/g	7.6	8.0	8.9	10.2
Oxidation (PA)	%	59	68	55	102



CONTAMINATION

Soot %	%	0.2	0.2	0.4	0.1
Nitration (PA)	%	50	52	52	45
Sulfation (PA)	%	57	60	51	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.9
Silicon	ppm	5	6	10	6
Sodium	ppm	2	2	4	12
Potassium	ppm	0	2	2	<1



WEAR METALS

Iron	ppm	7	8	15	8
Copper	ppm	2	3	10	2
Lead	ppm	<1	<1	4	<1
Tin	ppm	<1	1	2	<1
Aluminum	ppm	3	6	13	5
Chromium	ppm	0	<1	1	<1
Molybdenum	ppm	92	84	34	32
Nickel	ppm	0	<1	0	<1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	<1	0	<1
Manganese	ppm	<1	<1	3	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1471	1430	1526	1196
Magnesium	ppm	421	475	629	331
Zinc	ppm	1259	1268	1142	1003
Phosphorus	ppm	1064	1042	929	643
Barium	ppm	0	0	0	<1
Boron	ppm	441	389	59	23

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: 10634932
Signed: Wes Davis
Report Date: 08 Sep 2023



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GRAPHS

