



CONSTRUCTION EQUIPMENT

BELLEVILLE LUMBER VOLVO L60H 622916 - DIESEL ENGINE



Sample No: VCP379026
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: BELLEVILLE LUMBER



SAMPLE INFORMATION

Sample Number	VCP379026	VCP379030	VCP379025	---
Sample Date	24 Nov 2023	26 Jun 2023	13 Feb 2023	---
Machine Hours	758	504	246	---
Oil Hours	254	250	246	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	ABNORMAL	---

HIGHWAY EQUIPMENT AND SUPPLY CO

122 FRITZ ROAD
 LOCK HAVEN, PA
 US 17745

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OIL CONDITION

Visc @ 100°C	cSt	11.9	12.0	12.0	---
Base Number (BN)	mg KOH/g	9.9	7.0	9.8	---
Oxidation (PA)	%	84	43	74	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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

Water	%	NEG	NEG	NEG	---
Soot %	%	0.3	0.3	0.3	---
Nitration (PA)	%	58	65	59	---
Sulfation (PA)	%	64	52	60	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	2.6	---
Silicon	ppm	8	8	16	---
Sodium	ppm	0	2	4	---
Potassium	ppm	1	<1	<1	---



WEAR METALS

Iron	ppm	14	14	28	---
Copper	ppm	2	2	10	---
Lead	ppm	<1	<1	1	---
Tin	ppm	2	1	3	---
Aluminum	ppm	4	7	56	---
Chromium	ppm	2	2	8	---
Molybdenum	ppm	43	38	37	---
Nickel	ppm	<1	0	0	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	4	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1747	1549	1492	---
Magnesium	ppm	551	493	558	---
Zinc	ppm	1151	1041	1050	---
Phosphorus	ppm	969	889	911	---
Barium	ppm	0	0	2	---
Boron	ppm	59	56	62	---

Depot: HIGLOC
Unique No: 10764372
Signed: Wes Davis
Report Date: 29 Nov 2023



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GRAPHS

