



CONSTRUCTION EQUIPMENT

24357 VOLVO L110H 632426 - DIESEL ENGINE



Sample No: VCP420549
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 24357



218 - ASCENDUM MACHINERY INC - N. CHARLESTON
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SAMPLE INFORMATION

Sample Number	VCP420549	VCP404420	---	---
Sample Date	03 Nov 2023	04 Mar 2023	---	---
Machine Hours	6035	2427	---	---
Oil Hours	1000	1000	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---



OIL CONDITION

Visc @ 100°C	cSt	14.1	13.3	---	---
Base Number (BN)	mg KOH/g	5.4	6.7	---	---
Oxidation (PA)	%	112	98	---	---



CONTAMINATION

Soot %	%	1.4	0.7	---	---
Nitration (PA)	%	113	97	---	---
Sulfation (PA)	%	77	68	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	9	14	---	---
Sodium	ppm	5	5	---	---
Potassium	ppm	2	0	---	---



WEAR METALS

Iron	ppm	77	63	---	---
Copper	ppm	15	59	---	---
Lead	ppm	8	11	---	---
Tin	ppm	5	3	---	---
Aluminum	ppm	19	35	---	---
Chromium	ppm	4	4	---	---
Molybdenum	ppm	39	51	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	1	3	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1982	1619	---	---
Magnesium	ppm	490	489	---	---
Zinc	ppm	1128	1115	---	---
Phosphorus	ppm	981	869	---	---
Barium	ppm	2	0	---	---
Boron	ppm	13	57	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level has decreased, but is still abnormal. All other 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 acceptable for the time in service.

Depot: VOLVO3387
Unique No: 10729728
Signed: Don Baldrige
Report Date: 09 Nov 2023



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GRAPHS

