



CONSTRUCTION EQUIPMENT

23847 VOLVO L45H 4123010 - DIESEL ENGINE



Sample No: VCP426882
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 23847



218 - ASCENDUM MACHINERY INC - N. CHARLESTON
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SAMPLE INFORMATION

Sample Number	VCP426882	VCP363548	VCP323377	---
Sample Date	11 Aug 2023	28 Dec 2022	15 Jul 2021	---
Machine Hours	2335	1754	553	---
Oil Hours	1000	500	0	---
Oil Changed	N/A	Changed	N/A	---
Sample Status	NORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 100°C	cSt	13.1	12.9	13.6	---
Base Number (BN)	mg KOH/g	10.5	10	---	---
Oxidation (PA)	%	82	78	76	---



CONTAMINATION

Soot %	%	0.6	0.6	0.1	---
Nitration (PA)	%	68	69	41	---
Sulfation (PA)	%	62	61	63	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	8	8	8	---
Sodium	ppm	3	2	2	---
Potassium	ppm	<1	0	1	---



WEAR METALS

Iron	ppm	19	25	2	---
Copper	ppm	5	5	<1	---
Lead	ppm	0	<1	<1	---
Tin	ppm	1	1	<1	---
Aluminum	ppm	4	5	<1	---
Chromium	ppm	1	2	<1	---
Molybdenum	ppm	42	44	41	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	<1	0	0	---
Silver	ppm	<1	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	<1	0	<1	---



ADDITIVES

Calcium	ppm	1809	1773	1617	---
Magnesium	ppm	530	555	532	---
Zinc	ppm	1136	1073	1111	---
Phosphorus	ppm	941	937	919	---
Barium	ppm	0	0	0	---
Boron	ppm	40	33	84	---

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: VOLVO3387
Unique No: 10608027
Signed: Wes Davis
Report Date: 21 Aug 2023



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GRAPHS

