



CONSTRUCTION EQUIPMENT

25990 VOLVO L45H 4123010 - DIESEL ENGINE



Sample No: VCP449828
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 25990



218 - ASCENDUM MACHINERY INC - N. CHARLESTON
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SAMPLE INFORMATION

Sample Number	VCP449828	VCP426882	VCP363548	VCP323377
Sample Date	26 Jun 2024	11 Aug 2023	28 Dec 2022	15 Jul 2021
Machine Hours	3078	2335	1754	553
Oil Hours	0	1000	500	0
Oil Changed	Changed	N/A	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	12.8	13.1	12.9	13.6
Base Number (BN)	mg KOH/g	9.2	10.5	10	---
Oxidation (PA)	%	83	82	78	76



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.7	0.6	0.6	0.1
Nitration (PA)	%	75	68	69	41
Sulfation (PA)	%	62	62	61	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	11	8	8	8
Sodium	ppm	3	3	2	2
Potassium	ppm	1	<1	0	1



WEAR METALS

Iron	ppm	21	19	25	2
Copper	ppm	7	5	5	<1
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	1	1	<1
Aluminum	ppm	6	4	5	<1
Chromium	ppm	2	1	2	<1
Molybdenum	ppm	42	42	44	41
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	<1	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	<1



ADDITIVES

Calcium	ppm	1670	1809	1773	1617
Magnesium	ppm	549	530	555	532
Zinc	ppm	1187	1136	1073	1111
Phosphorus	ppm	1043	941	937	919
Barium	ppm	0	0	0	0
Boron	ppm	33	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: 11102342
Signed: Angela Borella
Report Date: 01 Jul 2024



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GRAPHS

