



CONSTRUCTION EQUIPMENT

580038 VOLVO L120H 632528 - DIESEL ENGINE



Sample No: VCP454581
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 580038



SAMPLE INFORMATION

Sample Number	VCP454581	VCP455044	VCP434079	VCP427209
Sample Date	14 Jun 2024	19 Mar 2024	26 Oct 2023	03 Aug 2023
Machine Hours	13069	12467	11506	11101
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

FORESTRY RESOURCES

4353 MICHIGAN LINK
 FORT MYERS, FL
 US 33916
 Contact: Trey George
 tgeorge@themulchsoilco.com
 T: (239)571-2345
 F:



OIL CONDITION

Visc @ 100°C	cSt	13.3	13.3	13.2	12.8
Base Number (BN)	mg KOH/g	9.4	8.9	9.4	10.6
Oxidation (PA)	%	88	90	69	80

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.4	0.2	0.2
Nitration (PA)	%	71	78	56	53
Sulfation (PA)	%	64	62	56	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	4	4
Sodium	ppm	4	3	2	2
Potassium	ppm	4	2	1	2



WEAR METALS

Iron	ppm	10	14	6	6
Copper	ppm	2	4	2	1
Lead	ppm	<1	1	0	<1
Tin	ppm	1	2	<1	<1
Aluminum	ppm	4	5	3	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	39	47	52	44
Nickel	ppm	<1	<1	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1736	1747	1236	1896
Magnesium	ppm	553	566	717	538
Zinc	ppm	1216	1177	1116	1213
Phosphorus	ppm	1017	958	1028	1018
Barium	ppm	0	0	4	0
Boron	ppm	25	25	16	49

Depot: FORFORTFL
Unique No: 11088275
Signed: Wes Davis
Report Date: 21 Jun 2024



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GRAPHS

