



CONSTRUCTION EQUIPMENT

25675 VOLVO L120H 632015 - DIESEL ENGINE



Sample No: VCP453729
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 25675



SAMPLE INFORMATION

Sample Number	VCP453729	VCP203767	VC413370	---
Sample Date	20 May 2024	31 Oct 2016	06 Jun 2016	---
Machine Hours	5526	1006	513	---
Oil Hours	0	0	0	---
Oil Changed	Changed	N/A	N/A	---
Sample Status	ABNORMAL	NORMAL	ABNORMAL	---

DORCHESTER LOGISTICS
 1949 GARDNER BLVD
 HOLLY HILL, SC
 US 29059
 Contact: SERVICE MANAGER



OIL CONDITION

Visc @ 100°C	cSt	13.1	14.28	13.5	---
Base Number (BN)	mg KOH/g	10.1	---	---	---
Oxidation (PA)	%	83	64	52	---

T: (803)496-5605
 F:

Diagnosis

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level is 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.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.2	0.2	0.2	---
Nitration (PA)	%	64	67	67	---
Sulfation (PA)	%	60	53	58	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	8	10	19	---
Sodium	ppm	4	5	6	---
Potassium	ppm	2	<1	2	---



WEAR METALS

Iron	ppm	22	21	27	---
Copper	ppm	2	9	30	---
Lead	ppm	<1	<1	4	---
Tin	ppm	2	3	4	---
Aluminum	ppm	▲ 24	12	▲ 55	---
Chromium	ppm	2	<1	2	---
Molybdenum	ppm	41	47	38	---
Nickel	ppm	<1	0	<1	---
Titanium	ppm	1	0	<1	---
Silver	ppm	1	0	1	---
Manganese	ppm	<1	<1	2	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	1639	1258	1144	---
Magnesium	ppm	499	780	771	---
Zinc	ppm	1099	994	953	---
Phosphorus	ppm	968	817	845	---
Barium	ppm	0	0	<1	---
Boron	ppm	48	17	24	---

Depot: DORHOL
Unique No: 11050437
Signed: Sean Felton
Report Date: 30 May 2024



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GRAPHS

