



CONSTRUCTION EQUIPMENT

VOLVO L60H 621345 - DIESEL ENGINE



Sample No: VCP454964
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP454964	VCP336696	VCP213522	---
Sample Date	22 May 2024	02 Dec 2021	24 Mar 2018	---
Machine Hours	9290	6332	0	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	---

SOUTH FLORIDA EXCAVATION

1455 RAIL HEAD BLVD STE 3
 NAPLES, FL
 US 34110-8407
 Contact: ROB ANDERSON
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OIL CONDITION

Visc @ 100°C	cSt	13.5	14.8	13.66	---
Base Number (BN)	mg KOH/g	8.0	6	---	---
Oxidation (PA)	%	91	94	52	---

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 %	%	0.6	1.4	0.1	---
Nitration (PA)	%	90	113	58	---
Sulfation (PA)	%	64	81	47	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	9	7	22	---
Sodium	ppm	4	2	6	---
Potassium	ppm	2	2	2	---



WEAR METALS

Iron	ppm	27	59	59	---
Copper	ppm	9	4	10	---
Lead	ppm	<1	2	2	---
Tin	ppm	1	2	3	---
Aluminum	ppm	30	21	31	---
Chromium	ppm	2	2	4	---
Molybdenum	ppm	47	49	42	---
Nickel	ppm	1	0	<1	---
Titanium	ppm	<1	0	0	---
Silver	ppm	1	0	0	---
Manganese	ppm	1	1	5	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	1715	1718	1100	---
Magnesium	ppm	510	483	780	---
Zinc	ppm	1163	1210	948	---
Phosphorus	ppm	936	967	848	---
Barium	ppm	0	0	<1	---
Boron	ppm	15	12	34	---

Depot: SOUNAPFL
Unique No: 11050430
Signed: Sean Felton
Report Date: 30 May 2024



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GRAPHS

