



CONSTRUCTION EQUIPMENT

X47713 VOLVO EC300EL 317950 - DIESEL ENGINE



Sample No: VCP439337
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X47713



SAMPLE INFORMATION

Sample Number	VCP439337	VCP430456	---	---
Sample Date	26 Apr 2024	20 Mar 2024	---	---
Machine Hours	1178	946	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

C & D LANDFILL
 3516 CENTRAL PIKE
 HERMITAGE, TX
 US 37076
 Contact: KELLI PHILLIPS
 kelli.phillips@wasteconnections.com
 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	12.4	12.2	---	---
Base Number (BN)	mg KOH/g	9.8	8.6	---	---
Oxidation (PA)	%	81	84	---	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. 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	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	49	58	---	---
Sulfation (PA)	%	62	63	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	27	23	---	---
Sodium	ppm	2	2	---	---
Potassium	ppm	0	3	---	---



WEAR METALS

Iron	ppm	24	19	---	---
Copper	ppm	12	102	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	5	8	---	---
Chromium	ppm	1	1	---	---
Molybdenum	ppm	44	56	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	1853	1765	---	---
Magnesium	ppm	531	456	---	---
Zinc	ppm	1129	1162	---	---
Phosphorus	ppm	971	978	---	---
Barium	ppm	<1	<1	---	---
Boron	ppm	53	88	---	---

Depot: CDLHER
Unique No: 11019452
Signed: Don Baldrige
Report Date: 11 May 2024



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GRAPHS

