



CONSTRUCTION EQUIPMENT

589608 RENTALS VOLVO EC380EL 315360 - DIESEL ENGINE



Sample No: VCP454515
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: 589608 RENTALS



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SAMPLE INFORMATION

Sample Number	VCP454515	VCP432807	---	---
Sample Date	18 Jun 2024	08 Nov 2023	---	---
Machine Hours	2346	0	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	ABNORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	12.4	12.2	---	---
Base Number (BN)	mg KOH/g	7.0	9.4	---	---
Oxidation (PA)	%	90	82	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	83	63	---	---
Sulfation (PA)	%	65	63	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.7	---	---
Silicon	ppm	6	10	---	---
Sodium	ppm	2	2	---	---
Potassium	ppm	0	0	---	---

WEAR METALS

Iron	ppm	7	8	---	---
Copper	ppm	15	69	---	---
Lead	ppm	<1	2	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	1	1	---	---
Chromium	ppm	0	0	---	---
Molybdenum	ppm	51	45	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	1962	1690	---	---
Magnesium	ppm	488	512	---	---
Zinc	ppm	1274	1197	---	---
Phosphorus	ppm	1007	975	---	---
Barium	ppm	0	0	---	---
Boron	ppm	8	38	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VOLVO0096
Unique No: 11090612
Signed: Don Baldrige
Report Date: 25 Jun 2024



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GRAPHS

