



CONSTRUCTION EQUIPMENT

X27350 VOLVO L180H 5666 - DIESEL ENGINE



Sample No: VCP379756
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X27350



SAMPLE INFORMATION

Sample Number	VCP379756	VCP395118	---	---
Sample Date	01 Mar 2023	22 Feb 2023	---	---
Machine Hours	538	483	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	12.8	▲ 10.9	---	---
Base Number (BN)	mg KOH/g	10.6	■ 6.1	---	---
Oxidation (PA)	%	74	59	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level has decreased, but is still 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	---	---
Soot %	%	0.1	■ 0.1	---	---
Nitration (PA)	%	46	79	---	---
Sulfation (PA)	%	59	52	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	■ 0.6	---	---
Silicon	ppm	7	■ 22	---	---
Sodium	ppm	2	■ 5	---	---
Potassium	ppm	<1	■ 4	---	---

WEAR METALS

Iron	ppm	3	■ 10	---	---
Copper	ppm	▲ 75	▲ 434	---	---
Lead	ppm	0	■ <1	---	---
Tin	ppm	0	■ 2	---	---
Aluminum	ppm	1	■ 3	---	---
Chromium	ppm	0	■ <1	---	---
Molybdenum	ppm	45	■ 85	---	---
Nickel	ppm	0	■ <1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	■ <1	---	---
Manganese	ppm	<1	■ 3	---	---
Vanadium	ppm	0	<1	---	---

ADDITIVES

Calcium	ppm	1804	■ 2229	---	---
Magnesium	ppm	455	12	---	---
Zinc	ppm	1150	■ 1214	---	---
Phosphorus	ppm	945	■ 1009	---	---
Barium	ppm	0	■ 0	---	---
Boron	ppm	64	■ 44	---	---

Depot: VOLVO2603
Unique No: 10361935
Signed: Don Baldrige
Report Date: 06 Mar 2023



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GRAPHS

