



CONSTRUCTION EQUIPMENT

48098 VOLVO EC480EL 310276 - DIESEL ENGINE



Sample No: VCP423547
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 48098



367 - ASCENDUM MACHINERY INC - BUFORD
 3779 RYDER BLVD
 BUFORD, GA
 US 30519
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SAMPLE INFORMATION

Sample Number	VCP423547	VCP197490	VCP196548	---
Sample Date	19 Mar 2023	18 Mar 2017	29 Jun 2016	---
Machine Hours	0	2128	1110	---
Oil Hours	0	0	0	---
Oil Changed	N/A	Changed	Changed	---
Sample Status	SEVERE	NORMAL	SEVERE	---

OIL CONDITION

Visc @ 100°C	cSt	---	█ 13.23	█ 13.7	---
Oxidation (PA)	%	---	█ 48	█ 52	---

CONTAMINATION

Water	%	█ 24.3	NEG	NEG	---
Soot %	%	---	█ 0	█ 0	---
Nitration (PA)	%	---	█ 50	█ 58	---
Sulfation (PA)	%	---	█ 47	█ 50	---
Glycol	%	█ 0.10	NEG	NEG	---
Fuel	%	< 1.0	<1.0	<1.0	---
Silicon	ppm	█ 11	█ 6	█ 40	---
Sodium	ppm	▲ 754	█ 16	█ 12	---
Potassium	ppm	▲ 6	█ 2	█ 4	---

WEAR METALS

Iron	ppm	█ 8	█ 9	█ 22	---
Copper	ppm	█ 2	█ 18	▲ 150	---
Lead	ppm	█ < 1	█ 0	█ 3	---
Tin	ppm	█ < 1	█ 0	█ 4	---
Aluminum	ppm	█ 2	█ 2	▲ 10	---
Chromium	ppm	█ < 1	█ <1	█ <1	---
Molybdenum	ppm	█ 39	█ 55	█ 44	---
Nickel	ppm	█ 1	█ 0	█ 0	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	█ 0	0	0	---
Manganese	ppm	█ < 1	█ 2	█ 1	---
Vanadium	ppm	< 1	0	0	---

ADDITIVES

Calcium	ppm	█ 593	█ 1370	█ 1383	---
Magnesium	ppm	█ 166	█ 837	█ 758	---
Zinc	ppm	█ 619	█ 1013	█ 1013	---
Phosphorus	ppm	█ 506	█ 811	█ 833	---
Barium	ppm	█ 0	█ <1	█ 0	---
Boron	ppm	▲ 174	█ 29	█ 16	---

Diagnosis

We advise that you check for the source of the coolant leak. Recommend drain oil if not already done and flush before refilling with oil. We recommend that you inspect the component for an overhaul determination. Please note that the oil was too contaminated to perform some of the normal laboratory tests. All component wear rates are normal. Sodium and/or potassium levels are high. Appearance is unacceptable. There is a high concentration of water present in the oil. There is a high concentration of glycol present in the oil. There is a moderate amount of visible silt present in the sample. Excessive free water present. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLVO8529
Unique No: 10384950
Signed: Doug Bogart
Report Date: 22 Mar 2023



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GRAPHS

