



CONSTRUCTION EQUIPMENT

23956 VOLVO EC380EL 314090 - DIESEL ENGINE



Sample No: VCP434314
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 23956



218 - ASCENDUM MACHINERY INC - N. CHARLESTON
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 NORTH CHARLESTON, SC
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SAMPLE INFORMATION

Sample Number	VCP434314	VCP282226	---	---
Sample Date	24 Aug 2023	09 Nov 2020	---	---
Machine Hours	3560	957	---	---
Oil Hours	1000	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	NORMAL	ABNORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 12.0	█ 12.5	---	---
Base Number (BN)	mg KOH/g	█ 8.0	---	---	---
Oxidation (PA)	%	64	61	---	---

CONTAMINATION

Soot %	%	█ 0.1	█ 0.1	---	---
Nitration (PA)	%	63	78	---	---
Sulfation (PA)	%	53	57	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	█ 3.5	<1.0	---	---
Silicon	ppm	█ 8	█ 5	---	---
Sodium	ppm	█ 4	█ 2	---	---
Potassium	ppm	█ 4	█ <1	---	---

WEAR METALS

Iron	ppm	█ 13	█ 4	---	---
Copper	ppm	█ 9	▲ 94	---	---
Lead	ppm	█ 2	█ <1	---	---
Tin	ppm	█ 1	█ 1	---	---
Aluminum	ppm	█ 2	█ 2	---	---
Chromium	ppm	█ <1	█ 0	---	---
Molybdenum	ppm	█ 51	█ 69	---	---
Nickel	ppm	█ 4	█ 0	---	---
Titanium	ppm	<1	█ 0	---	---
Silver	ppm	█ 0	<1	---	---
Manganese	ppm	█ 2	█ <1	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	█ 1368	█ 2113	---	---
Magnesium	ppm	730	█ 25	---	---
Zinc	ppm	█ 1191	█ 1144	---	---
Phosphorus	ppm	█ 963	█ 918	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 20	█ 44	---	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: VOLVO3387
Unique No: 10622169
Signed: Wes Davis
Report Date: 30 Aug 2023



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GRAPHS

