



CONSTRUCTION EQUIPMENT

CARMUESE DRUMMOND IS VOLVO A60H 350 130 - DIESEL ENGINE



Sample No: VCP370978
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: CARMUESE DRUMMOND IS



SAMPLE INFORMATION

Sample Number	VCP370978	VCP385524	---	---
Sample Date	18 Aug 2023	25 May 2023	---	---
Machine Hours	5190	4664	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	SEVERE	---	---

ALTA EQUIPMENT COMPANY - METRO WEST
56195 PONTIAC TRAIL
NEW HUDSON, MI
US 48165
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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.6	---	---
Base Number (BN)	mg KOH/g	9.1	11.5	---	---
Oxidation (PA)	%	63	76	---	---

Diagnosis

We advise that you check for possible coolant leak. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is negative. The condition of the oil is acceptable for the time in service.



CONTAMINATION

Soot %	%	1	0.5	---	---
Nitration (PA)	%	72	64	---	---
Sulfation (PA)	%	58	62	---	---
Glycol	%	0.0	0.10	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	4	6	---	---
Sodium	ppm	39	115	---	---
Potassium	ppm	115	297	---	---



WEAR METALS

Iron	ppm	25	13	---	---
Copper	ppm	3	2	---	---
Lead	ppm	2	0	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	4	1	---	---
Chromium	ppm	1	<1	---	---
Molybdenum	ppm	64	59	---	---
Nickel	ppm	4	<1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1260	1624	---	---
Magnesium	ppm	978	567	---	---
Zinc	ppm	1324	1110	---	---
Phosphorus	ppm	1068	899	---	---
Barium	ppm	0	0	---	---
Boron	ppm	3	41	---	---

Depot: VOLVO2990
Unique No: 10631073
Signed: Doug Bogart
Report Date: 21 Sep 2023



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GRAPHS

