



CONSTRUCTION EQUIPMENT

ASCENDUM MACHINERY VOLVO A30G 470245 (S/N 742 133) - DIESEL ENGINE



Sample No: VCP371580
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP371580	VCP364892	VCP312646	---
Sample Date	22 Jun 2023	29 Jul 2022	17 Aug 2021	---
Machine Hours	3128	2460	1951	---
Oil Hours	128	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	---

MORGAN CORP

PO BOX 3555
 SPARTANBURG, SC
 US 29304

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OIL CONDITION

Visc @ 100°C	cSt	▲ 10.7	▲ 11.0	▲ 11.5	---
Base Number (BN)	mg KOH/g	■ 5.8	■ 10.0	---	---
Oxidation (PA)	%	70	78	43	---

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. Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

Soot %	%	■ 0.4	■ 0.2	■ 0.3	---
Nitration (PA)	%	90	69	67	---
Sulfation (PA)	%	63	63	55	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	■ 0.4	▲ 5.0	▲ 4.0	---
Silicon	ppm	▲ 33	■ 5	■ 3	---
Sodium	ppm	■ 3	■ 0	■ 2	---
Potassium	ppm	■ 3	■ <1	■ <1	---



WEAR METALS

Iron	ppm	■ 30	■ 7	■ 9	---
Copper	ppm	■ 194	■ 6	▲ 29	---
Lead	ppm	■ 0	■ <1	■ 0	---
Tin	ppm	■ 3	■ <1	■ <1	---
Aluminum	ppm	■ 3	■ 2	■ 0	---
Chromium	ppm	■ <1	■ <1	■ 0	---
Molybdenum	ppm	■ 75	■ 42	■ 4	---
Nickel	ppm	■ 2	■ 0	■ 0	---
Titanium	ppm	0	0	0	---
Silver	ppm	■ <1	0	0	---
Manganese	ppm	■ 5	<1	0	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	■ 2231	■ 1621	■ 2254	---
Magnesium	ppm	14	■ 419	■ 40	---
Zinc	ppm	■ 1209	■ 1036	■ 1010	---
Phosphorus	ppm	■ 968	■ 872	■ 886	---
Barium	ppm	■ 0	■ 1	■ 0	---
Boron	ppm	■ 20	■ 49	■ 4	---

Depot: MORSPA
Unique No: 10534628
Signed: Jonathan Hester
Report Date: 29 Jun 2023



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GRAPHS

