



CONSTRUCTION EQUIPMENT

19189 MARTIN MARIETT VOLVO A45G 353480 - DIESEL ENGINE



Sample No: VCP407589
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 19189 MARTIN MARIETT



SAMPLE INFORMATION

Sample Number	VCP407589	---	---	---
Sample Date	17 Jul 2023	---	---	---
Machine Hours	510	---	---	---
Oil Hours	510	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

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 GREENVILLE, NC
 US 27834
 Contact: BRANDON JENKINS
 BRANDON.JENKINS@ASCENDUMMACHINERY.COM
 T:
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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.0	---	---	---
Base Number (BN)	mg KOH/g	■ 5.7	---	---	---
Oxidation (PA)	%	■ 59	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Fuel content negligible. There is no indication of any contamination in the oil. 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 %	%	■ 0.3	---	---	---
Nitration (PA)	%	■ 85	---	---	---
Sulfation (PA)	%	■ 53	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	■ 0.8	---	---	---
Silicon	ppm	■ 27	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 1	---	---	---



WEAR METALS

Iron	ppm	■ 22	---	---	---
Copper	ppm	■ 191	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 5	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 95	---	---	---
Nickel	ppm	■ 3	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	■ 0	---	---	---



ADDITIVES

Calcium	ppm	■ 2367	---	---	---
Magnesium	ppm	■ 32	---	---	---
Zinc	ppm	■ 1289	---	---	---
Phosphorus	ppm	■ 1075	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 45	---	---	---

Depot: VOLVO8769
Unique No: 10586918
Signed: Jonathan Hester
Report Date: 07 Aug 2023



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GRAPHS

