



CONSTRUCTION EQUIPMENT

661395 TORO DINGO 412764213 - DIESEL ENGINE



Sample No: VCP445310
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 661395



SAMPLE INFORMATION

Sample Number	VCP445310	---	---	---
Sample Date	11 Mar 2024	---	---	---
Machine Hours	291	---	---	---
Oil Hours	291	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

FERROUS PROCESSING AND TRADING

3400 E LAFAYETTE
 DETROIT, MI
 US 48207

Contact: KEITH HALL
 keith.hall@fpt1.com

T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	● 11.2	---	---	---
Base Number (BN)	mg KOH/g	■ 8.9	---	---	---
Oxidation (PA)	%	60	---	---	---

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

Water	%	NEG	---	---	---
Soot %	%	■ 0.3	---	---	---
Nitration (PA)	%	60	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.8	---	---	---
Silicon	ppm	■ 27	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 2	---	---	---



WEAR METALS

Iron	ppm	■ 34	---	---	---
Copper	ppm	■ 8	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 6	---	---	---
Chromium	ppm	■ 2	---	---	---
Molybdenum	ppm	■ 61	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 1391	---	---	---
Magnesium	ppm	775	---	---	---
Zinc	ppm	■ 1185	---	---	---
Phosphorus	ppm	■ 1015	---	---	---
Barium	ppm	■ 2	---	---	---
Boron	ppm	■ 14	---	---	---

Depot: FERDET
Unique No: 10937567
Signed: Don Baldrige
Report Date: 22 Mar 2024



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GRAPHS

