



CONSTRUCTION EQUIPMENT

X48024 KOMATSU D51 015764 - DIESEL ENGINE



Sample No: VCP450958
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X48024



SAMPLE INFORMATION

Sample Number	VCP450958	VCP432707	---	---
Sample Date	01 May 2024	21 Mar 2024	---	---
Machine Hours	1727	1518	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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 3516 CENTRAL PIKE
 HERMITAGE, TX
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	█ 13.0	█ 13.3	---	---
Base Number (BN)	mg KOH/g	█ 8.7	█ 10.8	---	---
Oxidation (PA)	%	61	75	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination 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.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.1	█ 0	---	---
Nitration (PA)	%	45	40	---	---
Sulfation (PA)	%	53	60	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 5	█ 8	---	---
Sodium	ppm	█ 0	█ 3	---	---
Potassium	ppm	█ 0	█ 1	---	---



WEAR METALS

Iron	ppm	█ 2	█ 1	---	---
Copper	ppm	█ <1	█ 2	---	---
Lead	ppm	█ 0	█ <1	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 1	█ 3	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 62	█ 42	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	█ 1791	█ 1620	---	---
Magnesium	ppm	█ 418	█ 462	---	---
Zinc	ppm	█ 1198	█ 1030	---	---
Phosphorus	ppm	█ 1052	█ 867	---	---
Barium	ppm	█ <1	█ <1	---	---
Boron	ppm	151	█ 75	---	---

Depot: CDLHER
Unique No: 11019453
Signed: Wes Davis
Report Date: 10 May 2024



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GRAPHS

