



CONSTRUCTION EQUIPMENT

FRED-DERR VOLVO L150H 6900 - DIESEL ENGINE



Sample No: VCP452238
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: FRED-DERR



SAMPLE INFORMATION

Sample Number	VCP452238	VCP334734	VCP302056	---
Sample Date	11 Jan 2024	22 Jul 2021	21 Jan 2021	---
Machine Hours	5985	1411	1008	---
Oil Hours	0	500	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.9	12.6	---
Base Number (BN)	mg KOH/g	5.2	---	---	---
Oxidation (PA)	%	55	86	84	---

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	0.111	NEG	---
Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	78	61	60	---
Sulfation (PA)	%	53	65	65	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	3	4	6	---
Sodium	ppm	0	2	2	---
Potassium	ppm	3	2	2	---



WEAR METALS

Iron	ppm	5	5	8	---
Copper	ppm	1	3	13	---
Lead	ppm	1	<1	1	---
Tin	ppm	<1	1	2	---
Aluminum	ppm	2	0	0	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	82	39	42	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1918	1695	1604	---
Magnesium	ppm	53	486	468	---
Zinc	ppm	1143	1072	1016	---
Phosphorus	ppm	885	940	907	---
Barium	ppm	<1	0	0	---
Boron	ppm	21	87	40	---

Depot: FRESAR
Unique No: 10870781
Signed: Wes Davis
Report Date: 08 Feb 2024



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GRAPHS

