



CONSTRUCTION EQUIPMENT

PRINCE VOLVO L90H 626547 - DIESEL ENGINE



Sample No: VCP452252
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: PRINCE



SAMPLE INFORMATION

Sample Number	VCP452252	VCP429272	VCP422949	VCP420196
Sample Date	31 Jan 2024	03 Oct 2023	01 Aug 2023	02 May 2023
Machine Hours	2176	1571	1131	505
Oil Hours	0	0	500	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.7	13.0	12.7
Base Number (BN)	mg KOH/g	10.0	10.5	9.4	10.1
Oxidation (PA)	%	76	78	78	76



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.3	0.3
Nitration (PA)	%	56	55	60	59
Sulfation (PA)	%	59	58	58	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	15	6	8	17
Sodium	ppm	0	2	3	0
Potassium	ppm	3	<1	2	3



WEAR METALS

Iron	ppm	11	5	16	26
Copper	ppm	1	<1	2	9
Lead	ppm	0	<1	<1	1
Tin	ppm	0	<1	2	3
Aluminum	ppm	2	2	7	30
Chromium	ppm	1	<1	2	3
Molybdenum	ppm	46	42	43	45
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	1	4
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1715	1527	1727	1540
Magnesium	ppm	495	483	551	524
Zinc	ppm	1171	1036	1212	1104
Phosphorus	ppm	854	889	987	947
Barium	ppm	5	0	0	0
Boron	ppm	72	36	28	77

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.

Depot: VOLVO0093
Unique No: 10863250
Signed: Wes Davis
Report Date: 06 Feb 2024



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GRAPHS

