



CONSTRUCTION EQUIPMENT

673799 VOLVO L90 624855 - DIESEL ENGINE



Sample No: VCP440895
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 673799



SAMPLE INFORMATION

Sample Number	VCP440895	VCP406668	VCP372342	VCP328899
Sample Date	23 Feb 2024	08 May 2023	17 Apr 2022	06 Oct 2021
Machine Hours	4648	3569	2567	2032
Oil Hours	500	500	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

BLAZE CONSTRUCTION

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OIL CONDITION

Visc @ 100°C	cSt	13.8	14.2	13.6	12.9
Base Number (BN)	mg KOH/g	9.3	9.7	10.6	---
Oxidation (PA)	%	59	59	65	79

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 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	NEG	NEG	NEG
Soot %	%	0.4	0.4	0.3	0.5
Nitration (PA)	%	63	63	67	63
Sulfation (PA)	%	53	53	56	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	4	6
Sodium	ppm	1	1	1	2
Potassium	ppm	2	<1	0	<1



WEAR METALS

Iron	ppm	12	11	10	12
Copper	ppm	2	1	1	1
Lead	ppm	<1	0	0	<1
Tin	ppm	1	<1	<1	<1
Aluminum	ppm	7	2	10	8
Chromium	ppm	2	<1	1	1
Molybdenum	ppm	57	59	55	40
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	1052	1104	1204	1602
Magnesium	ppm	929	986	942	498
Zinc	ppm	1174	1287	1222	1067
Phosphorus	ppm	921	1037	1039	869
Barium	ppm	1	0	0	0
Boron	ppm	8	0	6	39

Depot: BLADET
Unique No: 10900930
Signed: Don Baldrige
Report Date: 29 Feb 2024



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VOLVO GRAPHS

