



CONSTRUCTION EQUIPMENT

701266 RITCHIE AUCT VOLVO L120H 632683 - DIESEL ENGINE



Sample No: VCP446357
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 701266 RITCHIE AUCT



SAMPLE INFORMATION

Sample Number	VCP446357	VCP437463	VCP434831	VCP421060
Sample Date	09 Apr 2024	16 Jan 2024	31 Aug 2023	11 May 2023
Machine Hours	5730	5187	4522	4061
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.1	12.9	12.9
Base Number (BN)	mg KOH/g	10.3	10.1	10.1	10.4
Oxidation (PA)	%	78	79	78	78

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	NEG	NEG
Soot %	%	0.1	0.2	0.1	0.2
Nitration (PA)	%	53	56	52	53
Sulfation (PA)	%	59	60	58	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	4	4
Sodium	ppm	2	0	2	0
Potassium	ppm	0	2	0	1



WEAR METALS

Iron	ppm	6	8	4	5
Copper	ppm	<1	2	<1	1
Lead	ppm	0	1	0	<1
Tin	ppm	1	2	<1	<1
Aluminum	ppm	3	3	3	2
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	38	44	44	47
Nickel	ppm	0	1	0	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	1575	1578	1756	1582
Magnesium	ppm	559	551	528	544
Zinc	ppm	1069	1153	1104	1113
Phosphorus	ppm	875	926	946	930
Barium	ppm	0	1	0	0
Boron	ppm	42	39	47	37

Depot: VOLVO0096
Unique No: 10980224
Signed: Wes Davis
Report Date: 17 Apr 2024



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GRAPHS

