



CONSTRUCTION EQUIPMENT

566232 NA MINING VOLVO L150H 6491 - DIESEL ENGINE



Sample No: VCP424439
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 566232 NA MINING



SAMPLE INFORMATION

Sample Number	VCP424439	VCP395064	VCP364404	VCP291287
Sample Date	14 Jun 2023	06 Mar 2023	22 Aug 2022	28 Oct 2020
Machine Hours	4891	4331	3814	1132
Oil Hours	500	800	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.4	12.4	12.6	13.0
Base Number (BN)	mg KOH/g	9.9	10.6	10.8	---
Oxidation (PA)	%	81	78	86	69

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	%	---	---	---	0.102
Soot %	%	0.3	0.1	0.2	0.2
Nitration (PA)	%	68	56	67	64
Sulfation (PA)	%	61	60	64	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	5	5
Sodium	ppm	2	4	<1	2
Potassium	ppm	<1	0	0	2



WEAR METALS

Iron	ppm	5	4	6	16
Copper	ppm	1	7	1	92
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	<1	1	1
Aluminum	ppm	3	1	2	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	45	41	46	21
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1638	1635	1597	1575
Magnesium	ppm	476	505	480	607
Zinc	ppm	1037	1031	1045	917
Phosphorus	ppm	844	869	845	817
Barium	ppm	0	0	0	0
Boron	ppm	34	46	29	56

Depot: VOLVO0093
Unique No: 10550567
Signed: Jonathan Hester
Report Date: 11 Jul 2023



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GRAPHS

