



CONSTRUCTION EQUIPMENT

8000381345 VOLVO L120H 632927 - DIESEL ENGINE



Sample No: VCP391817
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 8000381345



SAMPLE INFORMATION

Sample Number	VCP391817	LH394704	VCP392204	VCP353085
Sample Date	18 Oct 2023	11 Aug 2023	16 Jun 2023	27 Mar 2023
Machine Hours	6487	5896	5404	4846
Oil Hours	2000	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.0	13.3	13.5	13.3
Oxidation (PA)	%	82	80	84	84



CONTAMINATION

Soot %	%	0.5	0.4	0.4	0.1
Nitration (PA)	%	56	53	57	58
Sulfation (PA)	%	64	65	65	72
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	4	4
Sodium	ppm	2	2	2	2
Potassium	ppm	0	<1	<1	0

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 condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	8	7	8	8
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	0	0	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	4	3	4	5
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	40	41	41	41
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	<1	<1	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1652	1683	1705	1823
Magnesium	ppm	486	513	512	512
Zinc	ppm	1058	1082	1076	1107
Phosphorus	ppm	893	982	995	1012
Barium	ppm	<1	0	0	0
Boron	ppm	36	40	39	49

Depot: VOLVO9652
Unique No: 5659646
Signed: Wes Davis
Report Date: 20 Oct 2023



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GRAPHS

