



CONSTRUCTION EQUIPMENT

VOLVO L120H 632105 - DIESEL ENGINE



Sample No: VCP444335
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP444335	VCP429444	VCP417565	VCP409532
Sample Date	24 Apr 2024	24 Jan 2024	07 Jun 2023	10 Feb 2023
Machine Hours	19559	19925	18030	17307
Oil Hours	0	0	500	500
Oil Changed	Changed	N/A	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.0	12.7	12.5
Base Number (BN)	mg KOH/g	9.4	10.1	9.5	10.3
Oxidation (PA)	%	69	73	83	80

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.4	0.2	0.2
Nitration (PA)	%	52	53	63	64
Sulfation (PA)	%	57	59	61	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	4	6
Sodium	ppm	2	3	6	3
Potassium	ppm	3	8	2	0

WEAR METALS

Iron	ppm	13	18	11	10
Copper	ppm	2	2	1	2
Lead	ppm	<1	0	0	1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	2	2	0	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	40	43	41	36
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	<1	2
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	0	<1	1
Vanadium	ppm	0	0	0	<1

ADDITIVES

Calcium	ppm	1552	1478	1624	1590
Magnesium	ppm	483	533	503	511
Zinc	ppm	986	1077	1030	986
Phosphorus	ppm	895	832	834	818
Barium	ppm	1	5	0	0
Boron	ppm	46	46	35	34

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: GREDAVFL
Unique No: 11057080
Signed: Wes Davis
Report Date: 31 May 2024



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GRAPHS

