



CONSTRUCTION EQUIPMENT

VOLVO L120H 632529 - DIESEL ENGINE



Sample No: VCP446541
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP446541	VCP436716	VCP421353	VCP365153
Sample Date	14 Feb 2024	07 Dec 2023	07 Sep 2023	08 Jun 2023
Machine Hours	17629	17016	16483	15919
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

FORESTRY RESOURCES

4353 MICHIGAN LINK
 FORT MYERS, FL
 US 33916
 Contact: COREY MUELLER



OIL CONDITION

Visc @ 100°C	cSt	13.8	13.6	14.2	18.4
Base Number (BN)	mg KOH/g	9.3	9.7	9.3	6.9
Oxidation (PA)	%	80	83	86	173

T: (239)872-1856
 F:

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 %	%	0.3	0.3	0.5	1.5
Nitration (PA)	%	77	72	91	157
Sulfation (PA)	%	60	61	63	107
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	7	15
Sodium	ppm	2	4	4	5
Potassium	ppm	4	3	3	1



WEAR METALS

Iron	ppm	14	16	24	79
Copper	ppm	4	2	3	6
Lead	ppm	0	<1	3	13
Tin	ppm	<1	0	1	4
Aluminum	ppm	6	6	7	12
Chromium	ppm	<1	<1	<1	2
Molybdenum	ppm	51	53	71	87
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1500	1695	1990	2374
Magnesium	ppm	614	542	642	915
Zinc	ppm	1198	1184	1374	1682
Phosphorus	ppm	1016	974	1073	1375
Barium	ppm	10	0	0	0
Boron	ppm	16	29	25	9

Depot: FORFOTFL
Unique No: 10885592
Signed: Wes Davis
Report Date: 20 Feb 2024



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VOLVO GRAPHS

