



CONSTRUCTION EQUIPMENT

VOLVO L120F 66597 - DIESEL ENGINE



Sample No: VCP434288
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP434288	VCE029777	VCP221031	VCP151101
Sample Date	01 Dec 2023	18 Dec 2018	11 Sep 2018	20 Apr 2016
Machine Hours	40570	30237	29945	22794
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	ABNORMAL	NORMAL

OLD CASTLE LAWN & GARDEN
 1963 SW 351 HWY
 CROSS CITY, FL
 US 32628
 Contact: SERVICE MANAGER



OIL CONDITION

Visc @ 100°C	cSt	12.7	13.89	15.96	15.00
Base Number (BN)	mg KOH/g	6.3	---	---	---
Oxidation (PA)	%	66	82	85	64

T: (352)498-7127
 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 %	%	0.4	0.3	0.7	0.1
Nitration (PA)	%	81	66	93	58
Sulfation (PA)	%	62	62	66	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	▲ 24	4	3
Sodium	ppm	2	4	11	5
Potassium	ppm	3	<1	2	4



WEAR METALS

Iron	ppm	13	12	32	6
Copper	ppm	7	16	▲ 84	<1
Lead	ppm	3	<1	2	<1
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	2	2	2	2
Chromium	ppm	<1	1	2	<1
Molybdenum	ppm	42	42	6	16
Nickel	ppm	2	0	<1	<1
Titanium	ppm	15	18	101	64
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1639	1844	2006	1629
Magnesium	ppm	457	592	371	452
Zinc	ppm	1221	961	1261	1102
Phosphorus	ppm	952	830	926	931
Barium	ppm	0	0	0	0
Boron	ppm	21	31	30	54

Depot: OLD CRO
Unique No: 10776800
Signed: Wes Davis
Report Date: 07 Dec 2023



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GRAPHS

