



CONSTRUCTION EQUIPMENT

3 VOLVO L70F 62487 - DIESEL ENGINE



Sample No: VCP430543
Oil Type: MOBIL DELVAC 1300 SUPER15W40
Job No: 3



SAMPLE INFORMATION

Sample Number	VCP430543	VCP324026	VCP351312	VCP276664
Sample Date	14 Dec 2023	12 Apr 2023	23 Jun 2022	18 Nov 2020
Machine Hours	28409	26979	26689	6265
Oil Hours	500	400	600	400
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.4	13.3	12.5	13.6
Base Number (BN)	mg KOH/g	9.4	6.3	8.0	---
Oxidation (PA)	%	54	49	57	42

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.1	0.3	0.2
Nitration (PA)	%	52	63	68	63
Sulfation (PA)	%	50	43	52	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	2	8	4	4
Sodium	ppm	1	2	4	7
Potassium	ppm	<1	2	2	1

Diagnosis

The oil change at the time of sampling has been noted. 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 acceptable for the time in service.

WEAR METALS

Iron	ppm	5	4	9	7
Copper	ppm	<1	0	1	2
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	1	<1	2	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	61	83	52	7
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	1045	2101	1268	2286
Magnesium	ppm	952	109	790	115
Zinc	ppm	1273	1286	1237	1095
Phosphorus	ppm	1059	1075	1020	987
Barium	ppm	0	0	0	0
Boron	ppm	5	63	11	9

Depot: PLEDOV
Unique No: 10809273
Signed: Doug Bogart
Report Date: 08 Jan 2024



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GRAPHS

