



CONSTRUCTION EQUIPMENT

E15238 VOLVO L70H 624180 - DIESEL ENGINE



Sample No: VCP418862
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: E15238



SAMPLE INFORMATION

Sample Number	VCP418862	VCP388180	VCP378420	VCP378416
Sample Date	18 Jan 2024	31 May 2023	30 Sep 2022	12 Aug 2022
Machine Hours	0	4060	2924	2646
Oil Hours	500	150	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.9	13.9	13.3	13.9
Base Number (BN)	mg KOH/g	7.9	8.0	12.2	6.9
Oxidation (PA)	%	62	55	85	100

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	0.1	0.3	2.2
Nitration (PA)	%	64	43	56	129
Sulfation (PA)	%	54	54	66	81
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	4	5
Sodium	ppm	1	1	<1	2
Potassium	ppm	0	0	2	0

WEAR METALS

Iron	ppm	3	2	5	11
Copper	ppm	0	<1	<1	<1
Lead	ppm	0	0	0	<1
Tin	ppm	<1	0	<1	1
Aluminum	ppm	3	2	2	3
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	83	88	43	37
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	1395	1539	1709	1561
Magnesium	ppm	382	432	489	468
Zinc	ppm	1149	1321	1116	1030
Phosphorus	ppm	1016	1103	941	840
Barium	ppm	0	0	0	0
Boron	ppm	423	496	49	48

Depot: KATOAKME
Unique No: 10896427
Signed: Wes Davis
Report Date: 25 Feb 2024



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GRAPHS

