



CONSTRUCTION EQUIPMENT

702148 PADNOS VOLVO L70H 623923 - DIESEL ENGINE



Sample No: VCP445534
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 702148 PADNOS



SAMPLE INFORMATION

Sample Number	VCP445534	VCP445993	VCP416232	VCP354610
Sample Date	26 Apr 2024	28 Feb 2024	19 Jul 2023	01 Jun 2022
Machine Hours	9817	9322	7548	4061
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	14.1	14.1	14.7	14.3
Base Number (BN)	mg KOH/g	9.5	9.3	9.6	9.4
Oxidation (PA)	%	61	65	58	60

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.6	0.6	0.8
Nitration (PA)	%	64	70	62	68
Sulfation (PA)	%	54	54	53	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	5	3	4
Sodium	ppm	0	<1	2	0
Potassium	ppm	<1	2	0	1

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.

WEAR METALS

Iron	ppm	7	13	8	15
Copper	ppm	0	2	5	1
Lead	ppm	0	<1	0	<1
Tin	ppm	1	1	<1	<1
Aluminum	ppm	4	6	1	5
Chromium	ppm	<1	1	<1	1
Molybdenum	ppm	60	67	64	64
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	<1	0

ADDITIVES

Calcium	ppm	1070	1236	1180	1130
Magnesium	ppm	953	1091	1075	994
Zinc	ppm	1264	1398	1348	1318
Phosphorus	ppm	1037	1230	1086	1102
Barium	ppm	0	0	0	0
Boron	ppm	2	0	0	<1

Depot: VOLVO2990
Unique No: 11007261
Signed: Jonathan Hester
Report Date: 06 May 2024



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GRAPHS

