



CONSTRUCTION EQUIPMENT

SWA280460 VOLVO L70H 622505 - DIESEL ENGINE



Sample No: VCP436338
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA280460



SAMPLE INFORMATION

Sample Number	VCP436338	VCP416145	VCP400813	VCP387877
Sample Date	14 Feb 2024	01 Sep 2023	18 May 2023	12 Sep 2022
Machine Hours	12408	11602	11032	9569
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	N/A	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

ALTA EQUIPMENT

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 SYRACUSE, NY
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OIL CONDITION

Visc @ 100°C	cSt	12.6	11.7	12.3	12.3
Base Number (BN)	mg KOH/g	9.5	9.4	9.9	11.6
Oxidation (PA)	%	88	80	86	86



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.2	0.2	0.3
Nitration (PA)	%	75	63	67	63
Sulfation (PA)	%	62	59	62	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	4.1	<1.0	<1.0
Silicon	ppm	7	4	5	3
Sodium	ppm	<1	3	3	2
Potassium	ppm	1	0	<1	0



WEAR METALS

Iron	ppm	11	6	8	5
Copper	ppm	1	<1	0	<1
Lead	ppm	0	0	0	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	4	2	3	2
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	41	40	40	41
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1600	1752	1709	1582
Magnesium	ppm	497	507	524	482
Zinc	ppm	1093	1079	1134	1073
Phosphorus	ppm	972	919	941	859
Barium	ppm	10	0	0	0
Boron	ppm	28	33	42	45

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.

Depot: VOLVO0142
Unique No: 10885594
Signed: Wes Davis
Report Date: 20 Feb 2024



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GRAPHS

