



CONSTRUCTION EQUIPMENT

SW-21655-4 SUNSET MT VOLVO L70G 614499 - DIESEL ENGINE



Sample No: VCP423002
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SW-21655-4 SUNSET MT



SAMPLE INFORMATION

Sample Number	VCP423002	VCP218691	VCP207511	---
Sample Date	18 Jul 2023	29 Jan 2018	14 Aug 2017	---
Machine Hours	5304	2088	1569	---
Oil Hours	300	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---



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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.76	12.34	---
Base Number (BN)	mg KOH/g	8.6	---	---	---
Oxidation (PA)	%	53	64	60	---



CONTAMINATION

Soot %	%	0.2	0.3	0.2	---
Nitration (PA)	%	53	58	67	---
Sulfation (PA)	%	47	50	50	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	8	11	---
Sodium	ppm	2	3	6	---
Potassium	ppm	0	<1	4	---

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	6	15	22	---
Copper	ppm	<1	1	4	---
Lead	ppm	0	<1	0	---
Tin	ppm	0	<1	0	---
Aluminum	ppm	2	4	5	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	66	44	43	---
Nickel	ppm	0	<1	<1	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	1162	1357	1377	---
Magnesium	ppm	938	636	755	---
Zinc	ppm	1217	853	982	---
Phosphorus	ppm	1016	813	844	---
Barium	ppm	0	0	0	---
Boron	ppm	20	19	24	---

Depot: VOLVO8770
Unique No: 10573963
Signed: Don Baldrige
Report Date: 27 Jul 2023



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GRAPHS

