



CONSTRUCTION EQUIPMENT

W-5559-1 TUTLAN VOLVO L70E 60465 - DIESEL ENGINE



Sample No: VCP411773
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: W-5559-1 TUTLAN



SAMPLE INFORMATION

Sample Number	VCP411773	VCP417188	VCP354642	VCP340946
Sample Date	01 Sep 2023	14 Jun 2023	19 Aug 2022	16 Feb 2022
Machine Hours	9510	8998	7153	6542
Oil Hours	0	500	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	SEVERE

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OIL CONDITION

Visc @ 100°C	cSt	14.3	12.0	13.1	15.4
Base Number (BN)	mg KOH/g	6.4	6.2	7.8	10.3
Oxidation (PA)	%	46	59	57	94



CONTAMINATION

Soot %	%	0.4	0.5	0.4	1.4
Nitration (PA)	%	67	69	79	96
Sulfation (PA)	%	53	57	55	77
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	5.3	<1.0	<1.0
Silicon	ppm	5	9	38	466
Sodium	ppm	3	2	15	3
Potassium	ppm	2	2	12	37



WEAR METALS

Iron	ppm	15	31	31	527
Copper	ppm	2	1	4	21
Lead	ppm	0	<1	1	7
Tin	ppm	<1	1	2	4
Aluminum	ppm	2	2	4	404
Chromium	ppm	<1	<1	1	17
Molybdenum	ppm	7	73	61	61
Nickel	ppm	0	0	<1	3
Titanium	ppm	<1	<1	0	20
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	2	4
Vanadium	ppm	0	<1	0	<1



ADDITIVES

Calcium	ppm	2428	1890	2101	2147
Magnesium	ppm	55	351	81	433
Zinc	ppm	1137	1176	1138	1272
Phosphorus	ppm	926	971	949	1059
Barium	ppm	0	0	0	0
Boron	ppm	10	158	35	93

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: VOLVO9010
Unique No: 10632451
Signed: Wes Davis
Report Date: 05 Sep 2023



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GRAPHS

