



CONSTRUCTION EQUIPMENT

TERAFLEX VOLVO A30G 742054 - DIESEL ENGINE



Sample No: VCP370937
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: TERAFLEX



SAMPLE INFORMATION

Sample Number	VCP370937	VCP370954	VCP349273	VCP331374
Sample Date	19 Jul 2023	03 Dec 2022	16 Feb 2022	18 Nov 2021
Machine Hours	4557	4040	3376	3120
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	N/A
Sample Status	NORMAL	ATTENTION	NORMAL	ABNORMAL

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 215 FANNING FIELDS RD
 MILLS RIVER, NC
 US 28759
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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.2	12.8	12.3
Base Number (BN)	mg KOH/g	9.3	11.4	11.4	---
Oxidation (PA)	%	77	82	84	82

CONTAMINATION

Soot %	%	0.4	0.3	0.2	0.4
Nitration (PA)	%	64	64	60	68
Sulfation (PA)	%	60	63	64	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	1.0	<1.0	1.0
Silicon	ppm	4	4	6	5
Sodium	ppm	2	2	2	2
Potassium	ppm	<1	1	<1	<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	6	5	10
Copper	ppm	<1	<1	<1	2
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	0	1	5	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	41	42	44	45
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	6	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1862	1703	1734	1704
Magnesium	ppm	470	533	571	525
Zinc	ppm	1156	1141	1125	1043
Phosphorus	ppm	967	979	1013	929
Barium	ppm	0	0	0	0
Boron	ppm	67	48	75	59

Depot: VOLVO1672
Unique No: 10564323
Signed: Wes Davis
Report Date: 20 Jul 2023



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GRAPHS

