



CONSTRUCTION EQUIPMENT

SWO-070465 EPIROC T45-11SF AVO14A1117 - DIESEL ENGINE



Sample No: VCP454214
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-070465



SAMPLE INFORMATION

Sample Number	VCP454214	VCP415931	VCP402456	VCP279739
Sample Date	14 Mar 2024	24 Jul 2023	16 Mar 2023	19 Aug 2020
Machine Hours	1217	11559	10872	9280
Oil Hours	0	0	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

WHITAKER CONTRACTING

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OIL CONDITION

Visc @ 100°C	cSt	13.1	12.8	13.2	11.9
Base Number (BN)	mg KOH/g	8.2	10.1	9.9	---
Oxidation (PA)	%	71	80	84	55

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.8	1	0.8	0.7
Nitration (PA)	%	64	69	82	74
Sulfation (PA)	%	57	64	64	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	14	26	5	4
Sodium	ppm	6	7	0	3
Potassium	ppm	5	3	3	2



WEAR METALS

Iron	ppm	20	31	4	7
Copper	ppm	3	6	<1	<1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	1	2	<1	<1
Aluminum	ppm	3	3	1	0
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	52	44	21	4
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	<1	<1	0	<1



ADDITIVES

Calcium	ppm	1503	1711	1486	1269
Magnesium	ppm	654	554	518	681
Zinc	ppm	1172	1170	826	799
Phosphorus	ppm	991	937	692	696
Barium	ppm	2	0	0	0
Boron	ppm	17	24	82	55

Depot: WHIGUN
Unique No: 1093888
Signed: Wes Davis
Report Date: 22 Mar 2024



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VOLVO GRAPHS

