



CONSTRUCTION EQUIPMENT

TAKEUCHI TL120UZ 412003516 - DIESEL ENGINE



Sample No: VCP434382
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP434382	VCP355215	VCP335788	---
Sample Date	16 Oct 2023	21 Jun 2022	16 Oct 2021	---
Machine Hours	0	1049	521	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	14.0	13.7	13.1	---
Base Number (BN)	mg KOH/g	9.6	9.6	---	---
Oxidation (PA)	%	74	86	80	---

CONTAMINATION

Soot %	%	1.8	1.3	0.9	---
Nitration (PA)	%	96	91	74	---
Sulfation (PA)	%	66	67	65	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	13	11	12	---
Sodium	ppm	2	4	<1	---
Potassium	ppm	2	1	11	---

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	44	41	34	---
Copper	ppm	5	5	8	---
Lead	ppm	<1	<1	0	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	3	4	2	---
Chromium	ppm	1	2	5	---
Molybdenum	ppm	46	43	51	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	<1	<1	---
Manganese	ppm	<1	1	1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1416	1626	1807	---
Magnesium	ppm	476	468	459	---
Zinc	ppm	1127	1062	1064	---
Phosphorus	ppm	1009	830	935	---
Barium	ppm	5	0	<1	---
Boron	ppm	20	26	38	---

Depot: VOLVO0090
Unique No: 10728577
Signed: Wes Davis
Report Date: 07 Nov 2023



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GRAPHS

