



CONSTRUCTION EQUIPMENT

X48521 TADANO GR1200XL FFO181 - DIESEL ENGINE



Sample No: VCP430720
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: X48521



SAMPLE INFORMATION

Sample Number	VCP430720	VCP402530	VCP395121	---
Sample Date	02 Feb 2024	13 Jun 2023	24 Feb 2023	---
Machine Hours	3569	1968	1446	---
Oil Hours	0	0	0	---
Oil Changed	N/A	N/A	N/A	---
Sample Status	NORMAL	NORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.8	13.4	---
Base Number (BN)	mg KOH/g	6.3	9.0	5.4	---
Oxidation (PA)	%	103	89	81	---

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	---
Soot %	%	0.3	0.2	0.2	---
Nitration (PA)	%	98	63	88	---
Sulfation (PA)	%	65	64	63	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	14	13	51	---
Sodium	ppm	0	3	6	---
Potassium	ppm	5	2	15	---



WEAR METALS

Iron	ppm	55	20	57	---
Copper	ppm	12	24	178	---
Lead	ppm	<1	0	0	---
Tin	ppm	2	<1	2	---
Aluminum	ppm	16	6	11	---
Chromium	ppm	3	1	2	---
Molybdenum	ppm	45	44	63	---
Nickel	ppm	1	0	<1	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	<1	0	<1	---
Manganese	ppm	3	2	7	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	1654	1808	1849	---
Magnesium	ppm	540	535	359	---
Zinc	ppm	1225	1242	1213	---
Phosphorus	ppm	818	980	911	---
Barium	ppm	0	0	4	---
Boron	ppm	21	39	35	---

Depot: VOLVO6244
Unique No: 10869635
Signed: Jonathan Hester
Report Date: 09 Feb 2024



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GRAPHS

