



CONSTRUCTION EQUIPMENT

SPM595557 KOMATSU PC490LC-11 85277 - RIGHT FINAL DRIVE



Sample No: VCP415267
Oil Type: TDTO FLUID SAE 30
Job No: SPM595557



SAMPLE INFORMATION

Sample Number	VCP415267	VCP406052	VCP314257	---
Sample Date	12 Sep 2023	30 Mar 2023	30 Jun 2021	---
Machine Hours	0	2486	1908	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Not Changd	Changed	---
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	▲ 191	▲ 190	98.5	---
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CONTAMINATION

Silicon	ppm	▲ 276	▲ 169	▲ 77	---
Sodium	ppm	■ 6	■ 5	■ 6	---
Potassium	ppm	■ 28	■ 14	■ 6	---



WEAR METALS

Iron	ppm	▲ 527	■ 254	■ 231	---
Copper	ppm	■ 9	■ 4	■ 18	---
Lead	ppm	■ 0	■ 0	■ <1	---
Tin	ppm	■ 0	■ 0	■ <1	---
Aluminum	ppm	▲ 60	▲ 34	■ 20	---
Chromium	ppm	■ 11	■ 7	■ 8	---
Molybdenum	ppm	■ 3	■ 2	2	---
Nickel	ppm	■ 1	0	0	---
Titanium	ppm	4	2	2	---
Silver	ppm	0	0	<1	---
Manganese	ppm	■ 6	■ 3	3	---
Vanadium	ppm	<1	<1	<1	---



ADDITIVES

Calcium	ppm	■ 3239	■ 2347	■ 3913	---
Magnesium	ppm	■ 96	■ 60	19	---
Zinc	ppm	■ 1284	■ 883	■ 876	---
Phosphorus	ppm	■ 1069	■ 731	■ 717	---
Barium	ppm	■ 0	■ 0	6	---
Boron	ppm	■ 3	■ 1	10	---

Diagnosis

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. The iron level is abnormal. All other component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil viscosity is higher than normal. Confirm oil type.

Depot: JOHELK
Unique No: 10658468
Signed: Angela Borella
Report Date: 22 Sep 2023



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GRAPHS

