



# CONSTRUCTION EQUIPMENT

## SPM503305 KOMATSU PC490LC A41339 - RIGHT FINAL DRIVE



**Sample No:** VCP383269

**Oil Type:** TDTO FLUID SAE 30

**Job No:** SPM503305



### SAMPLE INFORMATION

Sample Number	<b>VCP383269</b>	VCP309490	VCP312384	---
Sample Date	<b>30 Mar 2023</b>	01 Sep 2021	01 Sep 2021	---
Machine Hours	<b>4320</b>	3027	3027	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>ABNORMAL</b>	ABNORMAL	NORMAL	---

### JOHN KENO & CO

750 RICARD LN  
ELK GROVE VILLAGE, IL  
US 60007

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F:



### OIL CONDITION

Visc @ 40°C	cSt	<b>98.9</b>	95.1	94.3	---
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### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Silicon	ppm	<b>▲ 217</b>	▲ 119	■ 16	---
Sodium	ppm	■ 8	■ 2	■ 0	---
Potassium	ppm	■ 27	■ 10	■ 0	---



### WEAR METALS

Iron	ppm	<b>■ 338</b>	■ 224	■ 28	---
Copper	ppm	■ 6	■ 5	■ <1	---
Lead	ppm	■ 0	■ <1	■ <1	---
Tin	ppm	■ 0	■ <1	■ <1	---
Aluminum	ppm	<b>▲ 50</b>	▲ 26	■ 1	---
Chromium	ppm	■ 6	■ 4	■ <1	---
Molybdenum	ppm	■ 4	■ 2	■ 2	---
Nickel	ppm	■ <1	0	0	---
Titanium	ppm	<b>3</b>	2	<1	---
Silver	ppm	<b>0</b>	<1	<1	---
Manganese	ppm	■ 5	■ 3	■ <1	---
Vanadium	ppm	<b>&lt;1</b>	<1	0	---



### ADDITIVES

Calcium	ppm	<b>■ 2367</b>	■ 4371	■ 4311	---
Magnesium	ppm	■ 81	■ 38	■ 15	---
Zinc	ppm	■ 1231	■ 1040	■ 1054	---
Phosphorus	ppm	■ 1022	■ 874	■ 880	---
Barium	ppm	■ <1	■ 0	■ 0	---
Boron	ppm	■ 2	■ 12	■ 13	---

### Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

**Depot:** JOHELK

**Unique No:** 10441518

**Signed:** Don Baldrige

**Report Date:** 26 Apr 2023



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## GRAPHS

