



CONSTRUCTION EQUIPMENT

SPM595557 KOMATSU PC490LC-11 85277 - LEFT FINAL DRIVE



Sample No: VCP415266
Oil Type: TDTO FLUID SAE 30
Job No: SPM595557



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VCP415266 | VCP406082 | VCP05304027 | --- |
| 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 Chngd | Changed | --- |
| Sample Status | ABNORMAL | ABNORMAL | ABNORMAL | --- |

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OIL CONDITION

| | | | | | |
|-------------|-----|--------------|-------|------|-----|
| Visc @ 40°C | cSt | ▲ 190 | ▲ 190 | 98.8 | --- |
|-------------|-----|--------------|-------|------|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|--------------|-------|-------|-----|
| Silicon | ppm | ▲ 378 | ▲ 101 | ▲ 109 | --- |
| Sodium | ppm | ■ 7 | ■ 3 | ■ 8 | --- |
| Potassium | ppm | ■ 45 | ■ 7 | ■ 12 | --- |



WEAR METALS

| | | | | | |
|------------|-----|-------------|-------|-------|-----|
| Iron | ppm | ■ 378 | ■ 204 | ■ 305 | --- |
| Copper | ppm | ■ 7 | ■ 3 | ■ 16 | --- |
| Lead | ppm | ■ 0 | ■ 0 | ■ <1 | --- |
| Tin | ppm | ■ 0 | ■ 0 | ■ <1 | --- |
| Aluminum | ppm | ▲ 88 | ▲ 17 | ▲ 32 | --- |
| Chromium | ppm | ■ 8 | ■ 5 | ■ 8 | --- |
| Molybdenum | ppm | ■ 2 | ■ 2 | ■ 2 | --- |
| Nickel | ppm | ■ 2 | ■ 0 | ■ <1 | --- |
| Titanium | ppm | ■ 4 | ■ 2 | ■ 2 | --- |
| Silver | ppm | ■ 0 | ■ 0 | ■ 1 | --- |
| Manganese | ppm | ■ 5 | ■ 2 | ■ 4 | --- |
| Vanadium | ppm | ■ <1 | ■ <1 | ■ <1 | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------|--------|--------|-----|
| Calcium | ppm | ■ 2415 | ■ 2353 | ■ 4031 | --- |
| Magnesium | ppm | ■ 90 | ■ 39 | ■ 27 | --- |
| Zinc | ppm | ■ 971 | ■ 887 | ■ 893 | --- |
| Phosphorus | ppm | ■ 776 | ■ 737 | ■ 743 | --- |
| Barium | ppm | ■ 1 | ■ 0 | ■ 6 | --- |
| Boron | ppm | ■ 2 | ■ <1 | ■ 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 oil viscosity is higher than normal. Confirm oil type.

Depot: JOHELK
Unique No: 10658469
Signed: Angela Borella
Report Date: 22 Sep 2023



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GRAPHS

