



CONSTRUCTION EQUIPMENT

KOMATSU 130LC K23561480 - DIESEL ENGINE



Sample No: VCP442218
Oil Type: DIESEL ENGINE OIL SAE 40
Job No:



SAMPLE INFORMATION

Sample Number	VCP442218	---	---	---
Sample Date	14 Jun 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	201	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	---	---	---
Base Number (BN)	mg KOH/g	█ 8.0	---	---	---
Oxidation (PA)	%	61	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	56	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	▲ 29	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 0	---	---	---



WEAR METALS

Iron	ppm	█ 12	---	---	---
Copper	ppm	█ 19	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 65	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 2064	---	---	---
Magnesium	ppm	█ 450	---	---	---
Zinc	ppm	█ 1378	---	---	---
Phosphorus	ppm	█ 1136	---	---	---
Barium	ppm	█ 2	---	---	---
Boron	ppm	█ 100	---	---	---

Depot: VOLVO0093
Unique No: 11086118
Signed: Sean Felton
Report Date: 20 Jun 2024



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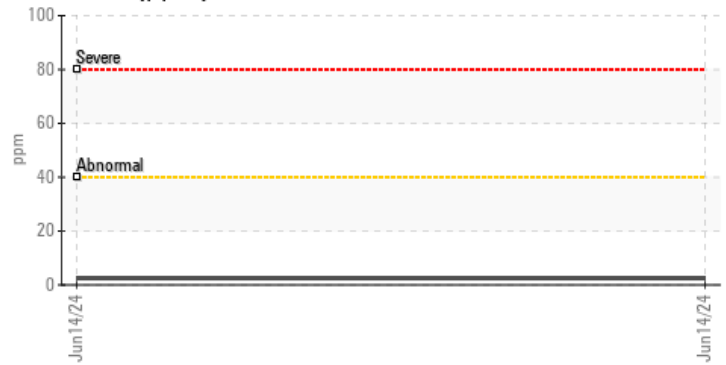


GRAPHS

Iron (ppm)



Lead (ppm)



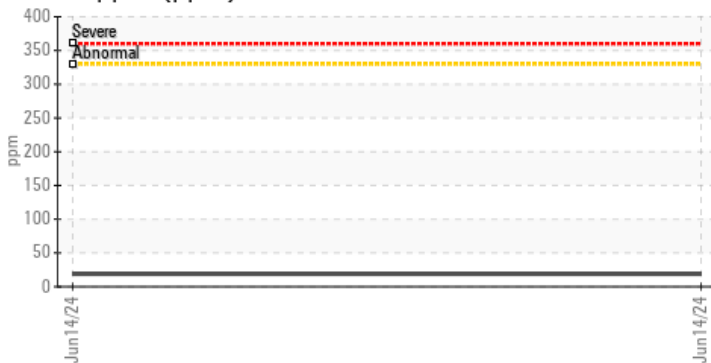
Aluminum (ppm)



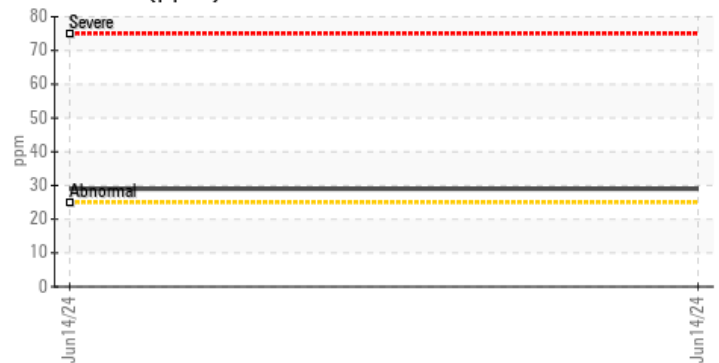
Chromium (ppm)



Copper (ppm)



▲ Silicon (ppm)



Viscosity @ 100°C



Base Number

