



CONSTRUCTION EQUIPMENT

KOMATSU WA500-8 WP7225 - DIESEL ENGINE



Sample No: VCP443413
Oil Type: KOMATSU 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP443413	---	---	---
Sample Date	04 Jun 2024	---	---	---
Machine Hours	9426	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---

LEGACY MATERIALS
 5740 UTE CT
 VAN METER, IA
 US 50038
 Contact: ALEX
 qc@legacymaterials.org
 T: (641)840-1326
 F:



OIL CONDITION

Visc @ 100°C	cSt	█ 13.9	---	---	---
Base Number (BN)	mg KOH/g	█ 9.1	---	---	---
Oxidation (PA)	%	67	---	---	---

Diagnosis

Check for low coolant level. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels are high. 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 %	%	█ 1	---	---	---
Nitration (PA)	%	72	---	---	---
Sulfation (PA)	%	61	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 3	---	---	---
Sodium	ppm	█ 33	---	---	---
Potassium	ppm	▲ 48	---	---	---



WEAR METALS

Iron	ppm	█ 15	---	---	---
Copper	ppm	█ 13	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 68	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 2002	---	---	---
Magnesium	ppm	█ 505	---	---	---
Zinc	ppm	█ 1386	---	---	---
Phosphorus	ppm	█ 1182	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 35	---	---	---

Depot: LEGVAN
Unique No: 11074842
Signed: Sean Felton
Report Date: 14 Jun 2024



CONSTRUCTION EQUIPMENT



GRAPHS

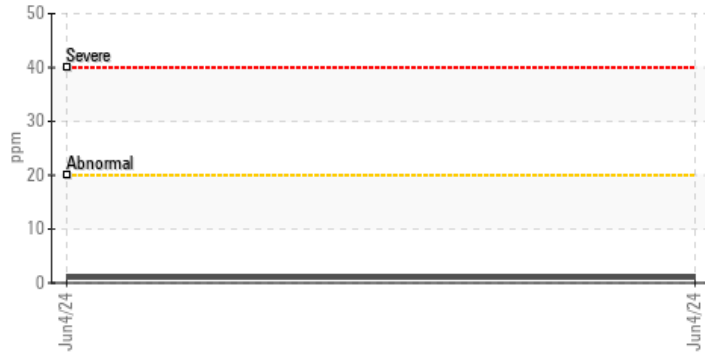
Iron (ppm)



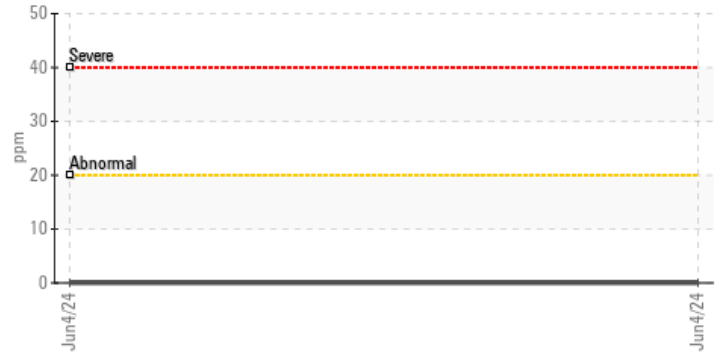
Lead (ppm)



Aluminum (ppm)



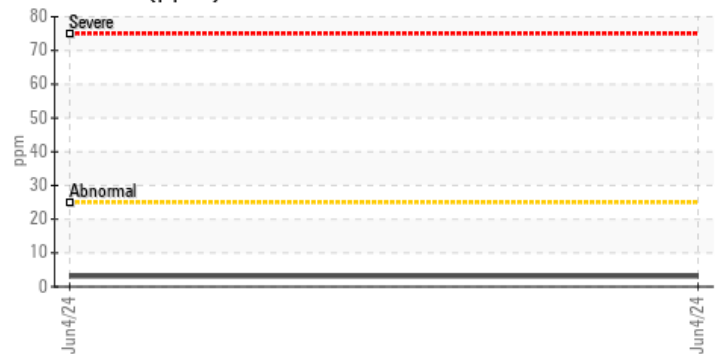
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

