



CONSTRUCTION EQUIPMENT

SWO-063199 KENWORTH 448049 - DIESEL ENGINE



Sample No: VCP408941
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: SWO-063199



SAMPLE INFORMATION

Sample Number	VCP408941	---	---	---
Sample Date	14 Jun 2023	---	---	---
Machine Hours	2220	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.7	---	---	---
Base Number (BN)	mg KOH/g	█ 9.6	---	---	---
Oxidation (PA)	%	94	---	---	---

CONTAMINATION

Soot %	%	█ 0.4	---	---	---
Nitration (PA)	%	79	---	---	---
Sulfation (PA)	%	64	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 7	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 4	---	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

WEAR METALS

Iron	ppm	█ 18	---	---	---
Copper	ppm	█ 4	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 5	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 41	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1564	---	---	---
Magnesium	ppm	█ 478	---	---	---
Zinc	ppm	█ 1040	---	---	---
Phosphorus	ppm	█ 868	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 44	---	---	---

Depot: SAIBIR
Unique No: 10522897
Signed: Sean Felton
Report Date: 21 Jun 2023



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GRAPHS

