

OIL ANALYSIS REPORT



NORFOLK SOUTHERN R 16596 CUMMINS QS612 76708183 - DIESEL ENGINE

Sample No: VPA034778

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA034778	---	---	---
Sample Date	12 Mar 2024	---	---	---
Machine Hours	14919	---	---	---
Oil Hours	200	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

CHARLES EQUIPMENT ACQUISITION LLC
 530 SANTA ROSA DR
 DES PLAINES, IL
 US 60018
 Contact: JON MOCK
 jon.mock@charlesequipment.com
 T: (630)816-0449
 F:

OIL CONDITION

Visc @ 100°C	cSt	█ 12.5	---	---	---
Base Number (BN)	mg KOH/g	█ 9.1	---	---	---
Oxidation (PA)	%	57	---	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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 acceptable for the time in service.

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	48	---	---	---
Sulfation (PA)	%	51	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	█ 1.1	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 22	---	---	---
Potassium	ppm	█ 1	---	---	---

WEAR METALS

Iron	ppm	█ 2	---	---	---
Copper	ppm	█ 1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 57	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1082	---	---	---
Magnesium	ppm	█ 822	---	---	---
Zinc	ppm	█ 1189	---	---	---
Phosphorus	ppm	█ 1005	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 18	---	---	---

Depot: VP488880
Unique No: 10926945
Signed: Sean Felton
Report Date: 18 Mar 2024

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VOLVO PENTA

GRAPHS

