



CONSTRUCTION EQUIPMENT

VOLVO 627153 - DIESEL ENGINE



Sample No: VC06089802
Oil Type: DIESEL ENGINE OIL SAE 40
Job No:



SAMPLE INFORMATION

Sample Number	VC06089802	---	---	---
Sample Date	19 Jan 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

367 - ASCENDUM MACHINERY INC - BUFORD
 3779 RYDER BLVD
 BUFORD, GA
 US 30519
 Contact: Dana Vaccaro
 dana.vaccaro@ascendummachinery.com
 T: (678)318-9500
 F: (678)318-9534



OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	---	---	---
Base Number (BN)	mg KOH/g	█ 10.3	---	---	---
Oxidation (PA)	%	80	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	63	---	---	---
Sulfation (PA)	%	62	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 14	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 2	---	---	---



WEAR METALS

Iron	ppm	█ 34	---	---	---
Copper	ppm	█ 6	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 3	---	---	---
Aluminum	ppm	▲ 42	---	---	---
Chromium	ppm	█ 6	---	---	---
Molybdenum	ppm	█ 40	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 4	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 1650	---	---	---
Magnesium	ppm	█ 623	---	---	---
Zinc	ppm	█ 1237	---	---	---
Phosphorus	ppm	█ 1009	---	---	---
Barium	ppm	█ 4	---	---	---
Boron	ppm	█ 44	---	---	---

Depot: VOLVO8529
Unique No: 10882655
Signed: Don Baldrige
Report Date: 16 Feb 2024

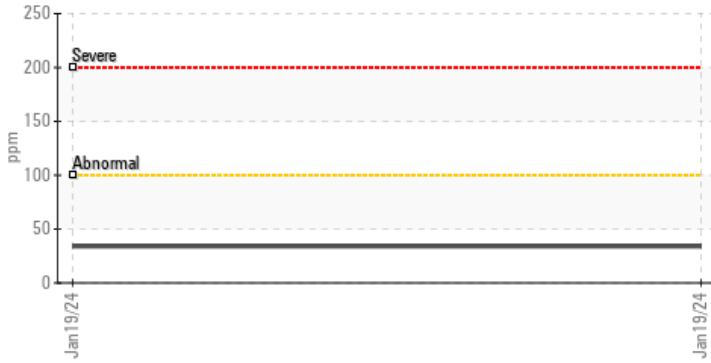


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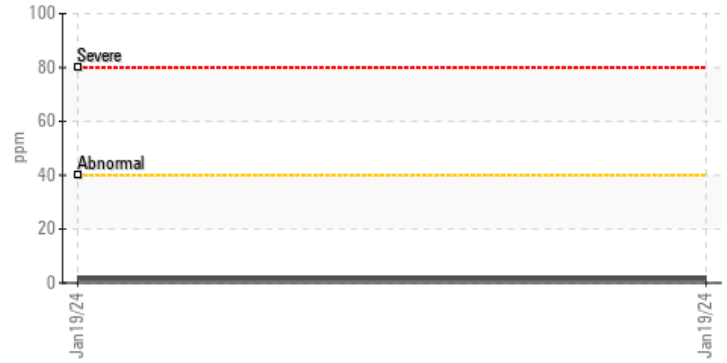


GRAPHS

Iron (ppm)



Lead (ppm)



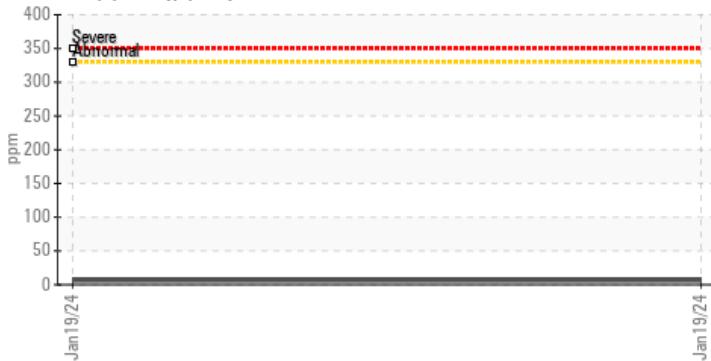
Aluminum (ppm)



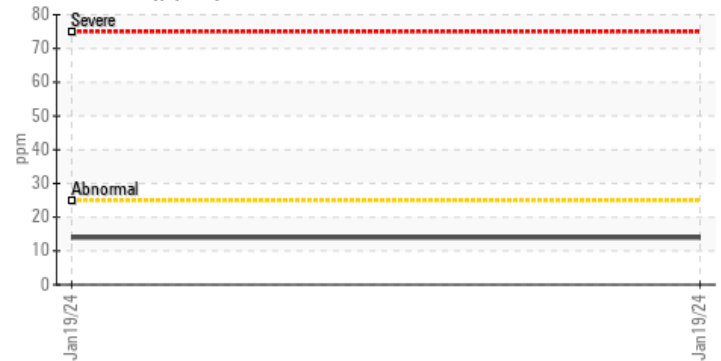
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

