



CONSTRUCTION EQUIPMENT

SWO069379 VOLVO A30G 753342 - DIESEL ENGINE



Sample No: VCP442212
Oil Type: {unknown}
Job No: SWO069379



SAMPLE INFORMATION

Sample Number	VCP442212	---	---	---
Sample Date	01 Feb 2024	---	---	---
Machine Hours	1648	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

MORGAN COUNTY LANDFILL
500 LANDFILL DR
TRINITY, AL
US 35673
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T: (256)341-4992
F:



OIL CONDITION

Visc @ 100°C	cSt	10.7	---	---	---
Base Number (BN)	mg KOH/g	▲ 3.5	---	---	---
Oxidation (PA)	%	75	---	---	---

Diagnosis

The oil is near the end of it's useful service life, recommend schedule an oil change. Resample at the next service interval to monitor. Valve wear is indicated. Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. The BN level is low. The condition of the oil is acceptable for the time in service.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.9	---	---	---
Nitration (PA)	%	95	---	---	---
Sulfation (PA)	%	74	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 1.3	---	---	---
Silicon	ppm	▲ 40	---	---	---
Sodium	ppm	■ 6	---	---	---
Potassium	ppm	■ 6	---	---	---



WEAR METALS

Iron	ppm	■ 72	---	---	---
Copper	ppm	■ 68	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 5	---	---	---
Aluminum	ppm	■ 5	---	---	---
Chromium	ppm	■ 2	---	---	---
Molybdenum	ppm	■ 88	---	---	---
Nickel	ppm	▲ 12	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ <1	---	---	---
Manganese	ppm	7	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 2122	---	---	---
Magnesium	ppm	■ 63	---	---	---
Zinc	ppm	■ 1147	---	---	---
Phosphorus	ppm	■ 948	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 12	---	---	---

Depot: MORTRI
Unique No: 10869223
Signed: Jonathan Hester
Report Date: 08 Feb 2024

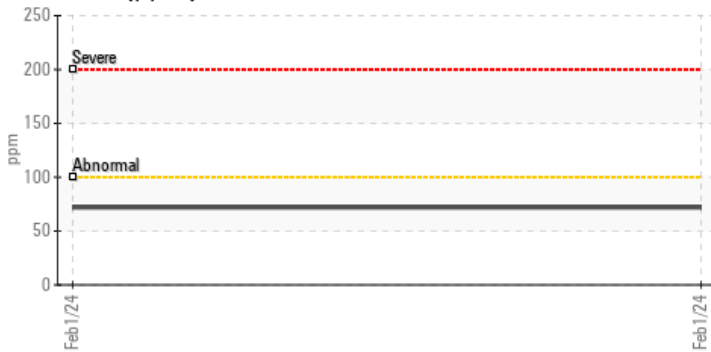


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GRAPHS

Iron (ppm)



Lead (ppm)



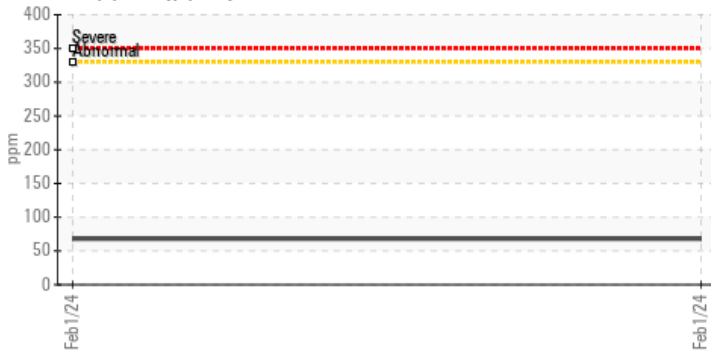
Aluminum (ppm)



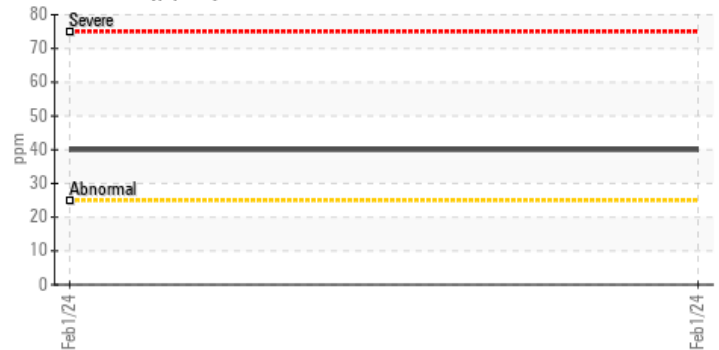
Chromium (ppm)



Copper (ppm)



▲ Silicon (ppm)



Viscosity @ 100°C



▲ Base Number

