



CONSTRUCTION EQUIPMENT

56538 MCLAMB VOLVO A30G 752017 - BOGIE/CENTER AXLE



Sample No: VCP436926
Oil Type: GEAR OIL SAE 80W90
Job No: 56538 MCLAMB



113 - ASCENDUM MACHINERY INC - GARNER
3561 JONES SAUSAGE ROAD
GARNER, NC
US 27529
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SAMPLE INFORMATION

Sample Number	VCP436926	---	---	---
Sample Date	07 May 2024	---	---	---
Machine Hours	4754	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	█ 123	---	---	---
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CONTAMINATION

Water	%	▲ 1.19	---	---	---
Silicon	ppm	▲ 8687	---	---	---
Sodium	ppm	█ 9	---	---	---
Potassium	ppm	█ 108	---	---	---



WEAR METALS

Iron	ppm	▲ 10206	---	---	---
Copper	ppm	▲ 2212	---	---	---
Lead	ppm	█ 3	---	---	---
Tin	ppm	▲ 124	---	---	---
Aluminum	ppm	● 1260	---	---	---
Chromium	ppm	▲ 120	---	---	---
Molybdenum	ppm	█ 8	---	---	---
Nickel	ppm	▲ 75	---	---	---
Titanium	ppm	█ 131	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	78	---	---	---
Vanadium	ppm	4	---	---	---



ADDITIVES

Calcium	ppm	█ 91	---	---	---
Magnesium	ppm	█ 50	---	---	---
Zinc	ppm	█ 71	---	---	---
Phosphorus	ppm	█ 637	---	---	---
Barium	ppm	█ 4	---	---	---
Boron	ppm	█ 96	---	---	---

Diagnosis

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Gear wear is indicated. Bearing and/or bushing wear is indicated. Generally a severe rate of wear throughout the component. There is a high concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLV00157
Unique No: 11018979
Signed: Don Baldrige
Report Date: 10 May 2024

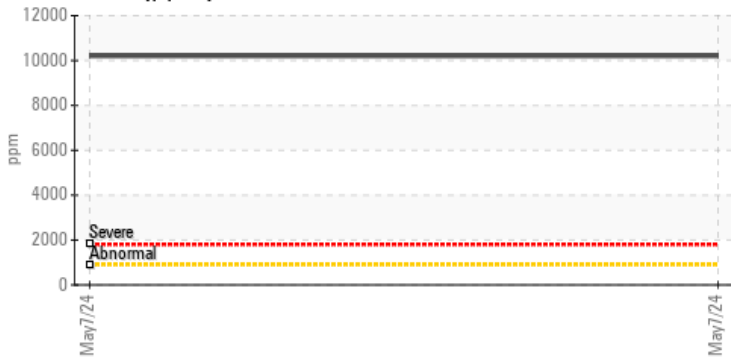


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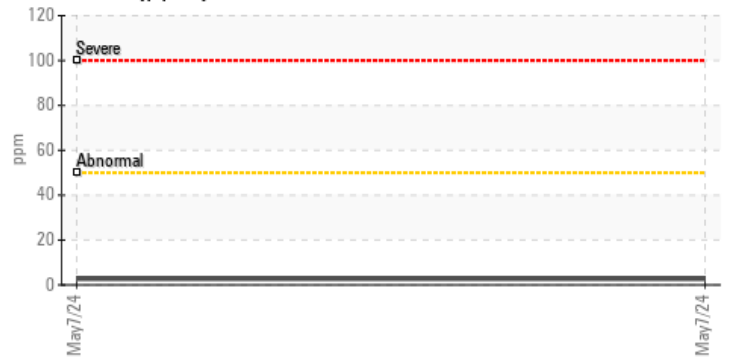


GRAPHS

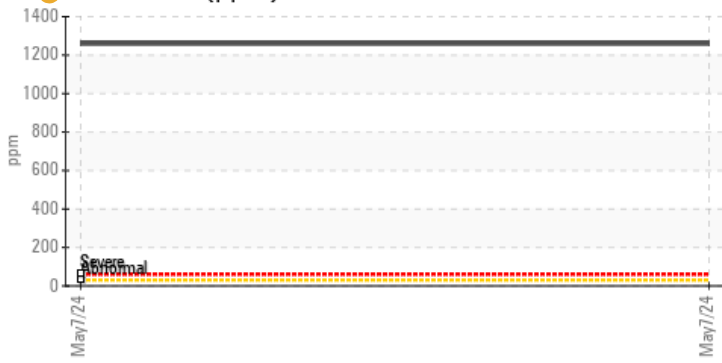
▲ Iron (ppm)



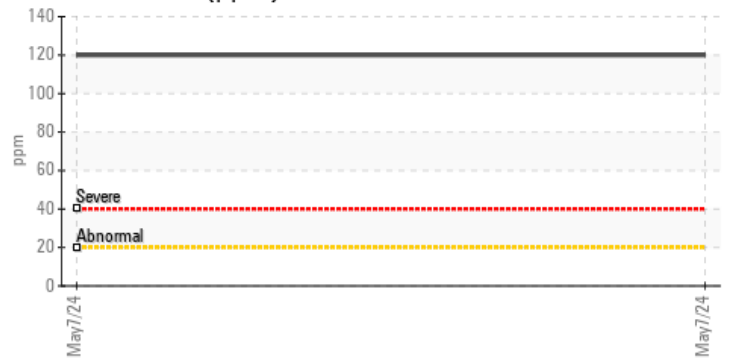
Lead (ppm)



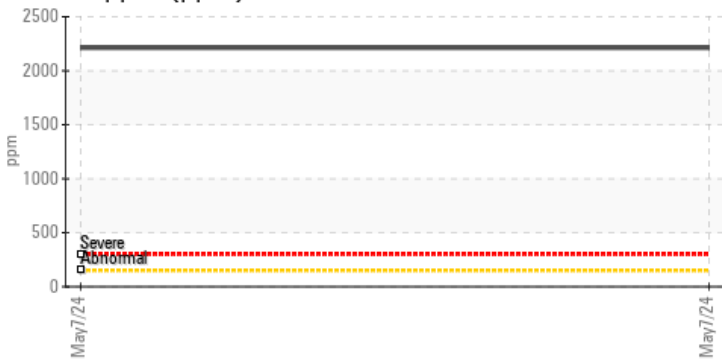
● Aluminum (ppm)



▲ Chromium (ppm)



▲ Copper (ppm)



▲ Silicon (ppm)



Viscosity @ 40°C



▲ Water

