



CONSTRUCTION EQUIPMENT

375374 VOLVO A25F 80028 - DIESEL ENGINE



Sample No: VCP392465
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 375374



SAMPLE INFORMATION

Sample Number	VCP392465	VCP352066	---	---
Sample Date	15 Aug 2023	06 Nov 2022	---	---
Machine Hours	16156	15482	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

STRONGCO EQUIPMENT

54 IBER ROAD
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 CA K2S 1E8
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OIL CONDITION

Visc @ 40°C	cSt	▲ 60	---	---	---
Visc @ 100°C	cSt	▲ 9.7	■ 10.3	---	---
Viscosity Index (VI)	Scale	▲ 145	---	---	---
Oxidation (PA)	%	85	61	---	---

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

CONTAMINATION

Soot %	%	■ 0.1	■ 0	---	---
Nitration (PA)	%	76	72	---	---
Sulfation (PA)	%	65	58	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	▲ 5.4	<1.0	---	---
Silicon	ppm	■ 8	■ 6	---	---
Sodium	ppm	■ 3	■ 2	---	---
Potassium	ppm	■ 1	■ 1	---	---

WEAR METALS

Iron	ppm	■ 16	■ 8	---	---
Copper	ppm	■ 2	■ 1	---	---
Lead	ppm	■ <1	■ <1	---	---
Tin	ppm	■ <1	■ <1	---	---
Aluminum	ppm	■ 6	■ 4	---	---
Chromium	ppm	■ <1	■ 0	---	---
Molybdenum	ppm	■ 32	■ 12	---	---
Nickel	ppm	■ <1	■ <1	---	---
Titanium	ppm	■ 16	67	---	---
Silver	ppm	■ 0	0	---	---
Manganese	ppm	■ <1	■ <1	---	---
Vanadium	ppm	<1	<1	---	---

ADDITIVES

Calcium	ppm	■ 1635	■ 1682	---	---
Magnesium	ppm	■ 452	■ 338	---	---
Zinc	ppm	■ 1060	■ 1074	---	---
Phosphorus	ppm	■ 960	■ 1014	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 46	■ 106	---	---

Depot: SHESTI
Unique No: 5629466
Signed: Kevin Marson
Report Date: 18 Aug 2023

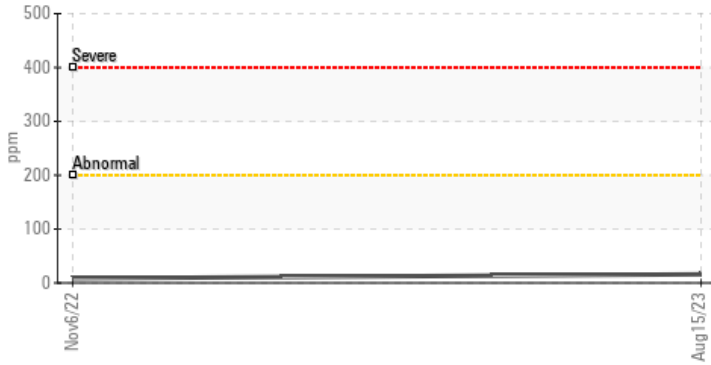


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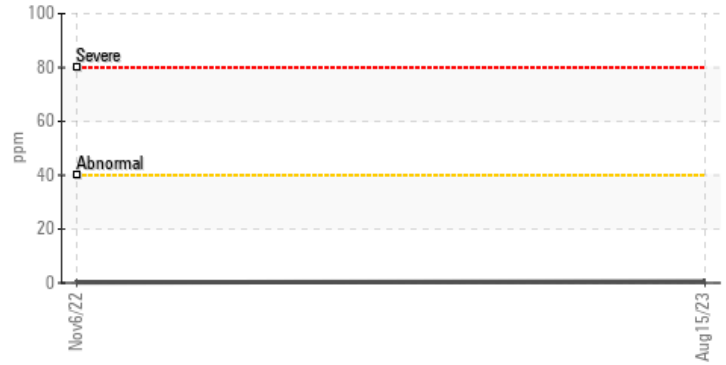


GRAPHS

Iron (ppm)



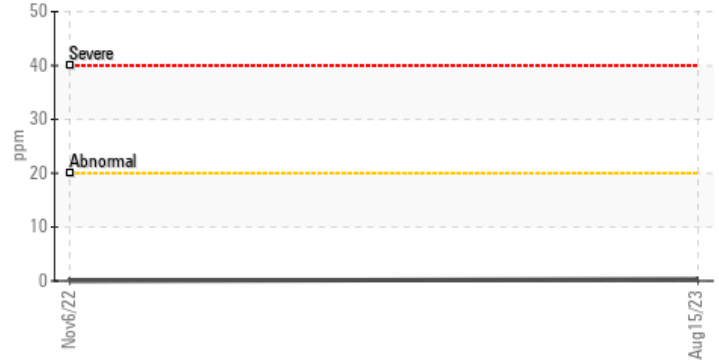
Lead (ppm)



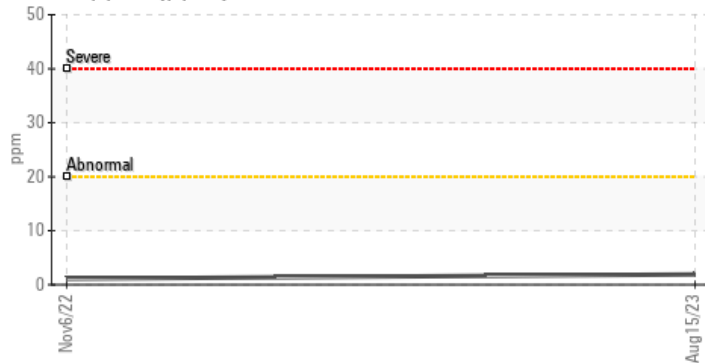
Aluminum (ppm)



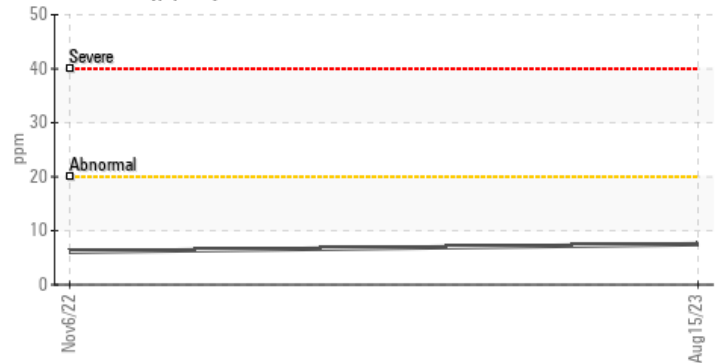
Chromium (ppm)



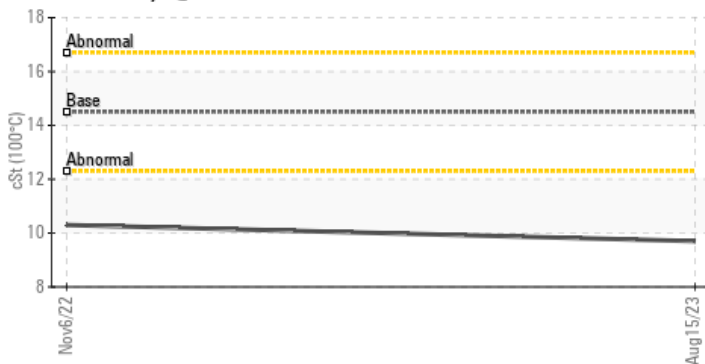
Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C



▲ Fuel Dilution

