



CONSTRUCTION EQUIPMENT

SPM716538 MCIRON - DIESEL ENGINE



Sample No: VCP452547
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM716538 MCIRON



SAMPLE INFORMATION

Sample Number	VCP452547	VCP437033	---	---
Sample Date	17 May 2024	14 Feb 2024	---	---
Machine Hours	1509	1003	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	MARGINAL	ABNORMAL	---	---

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 5000 INDUSTRIAL HWY
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 US 46406
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 F:



OIL CONDITION

Visc @ 100°C	cSt	▲ 12.2	▲ 12.3	---	---
Base Number (BN)	mg KOH/g	■ 7.6	■ 6.6	---	---
Oxidation (PA)	%	59	57	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.6	■ 0.5	---	---
Nitration (PA)	%	68	69	---	---
Sulfation (PA)	%	55	55	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	■ 0.6	---	---
Silicon	ppm	■ 5	■ 10	---	---
Sodium	ppm	■ 6	■ 2	---	---
Potassium	ppm	■ 3	■ 2	---	---



WEAR METALS

Iron	ppm	■ 20	■ 28	---	---
Copper	ppm	■ 49	■ 228	---	---
Lead	ppm	■ 0	■ 1	---	---
Tin	ppm	■ 1	■ 2	---	---
Aluminum	ppm	■ 2	■ 2	---	---
Chromium	ppm	■ <1	■ 2	---	---
Molybdenum	ppm	■ 63	■ 64	---	---
Nickel	ppm	■ 2	▲ 7	---	---
Titanium	ppm	■ 0	■ <1	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ 1	■ 1	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	■ 1077	■ 1087	---	---
Magnesium	ppm	■ 954	■ 766	---	---
Zinc	ppm	■ 1281	■ 1156	---	---
Phosphorus	ppm	■ 1083	■ 931	---	---
Barium	ppm	■ <1	■ 1	---	---
Boron	ppm	■ 1	■ 3	---	---

Depot: VOLVO8885
Unique No: 11059519
Signed: Jonathan Hester
Report Date: 11 Jun 2024



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GRAPHS

Iron (ppm)



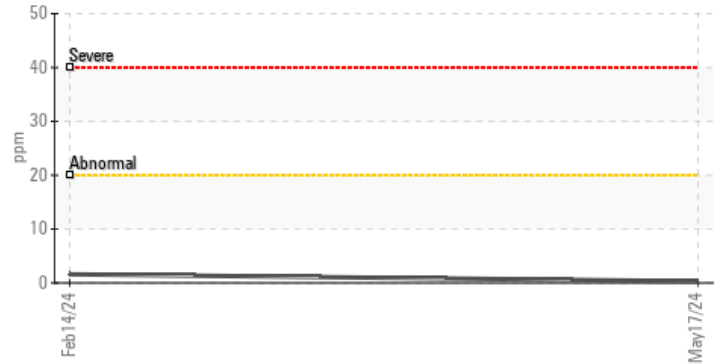
Lead (ppm)



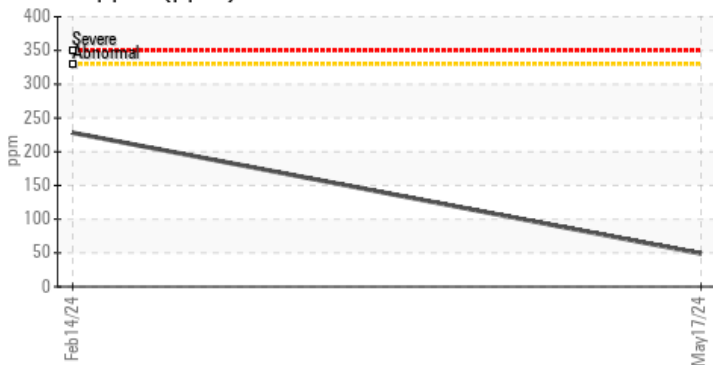
Aluminum (ppm)



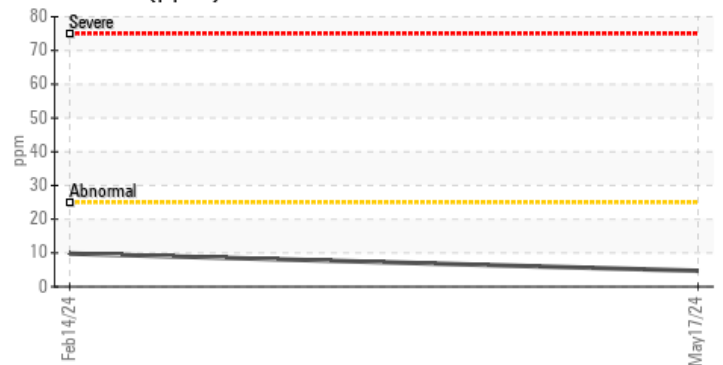
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C



Base Number

