



CONSTRUCTION EQUIPMENT

SWO-070729 EPIROC D60-10 TMG23SED0506 - DIESEL ENGINE



Sample No: VCP436281
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-070729



SAMPLE INFORMATION

Sample Number	VCP436281	VCP447602	---	---
Sample Date	01 Apr 2024	27 Dec 2023	---	---
Machine Hours	558	263	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

WHITAKER CONTRACTING

692 CONVICT CAMP RD
 GUNTERVILLE, AL
 US 35976
 Contact: BROTHER WHITAKER
 BrotherWhitaker@whitaker-contracting.com
 T: (256)298-3905
 F:



OIL CONDITION

Visc @ 100°C	cSt	█ 12.5	█ 13.1	---	---
Base Number (BN)	mg KOH/g	█ 7.3	█ 7.2	---	---
Oxidation (PA)	%	83	80	---	---

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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 suitable for further service.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.4	█ 0.1	---	---
Nitration (PA)	%	81	62	---	---
Sulfation (PA)	%	60	59	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 23	█ 12	---	---
Sodium	ppm	█ 5	█ 3	---	---
Potassium	ppm	█ 2	█ 2	---	---



WEAR METALS

Iron	ppm	█ 44	█ 5	---	---
Copper	ppm	█ 433	█ 156	---	---
Lead	ppm	█ <1	█ 3	---	---
Tin	ppm	█ 2	█ 1	---	---
Aluminum	ppm	█ 4	█ 3	---	---
Chromium	ppm	█ 3	█ <1	---	---
Molybdenum	ppm	█ 74	█ 76	---	---
Nickel	ppm	█ <1	█ <1	---	---
Titanium	ppm	<1	█ 0	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ 2	█ 1	---	---
Vanadium	ppm	<1	<1	---	---

Diagnosis



ADDITIVES

Calcium	ppm	█ 2263	█ 2040	---	---
Magnesium	ppm	█ 569	█ 65	---	---
Zinc	ppm	█ 1418	█ 1178	---	---
Phosphorus	ppm	█ 1201	█ 967	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 32	█ 64	---	---

Depot: WHIGUN
Unique No: 10963044
Signed: Wes Davis
Report Date: 04 Apr 2024

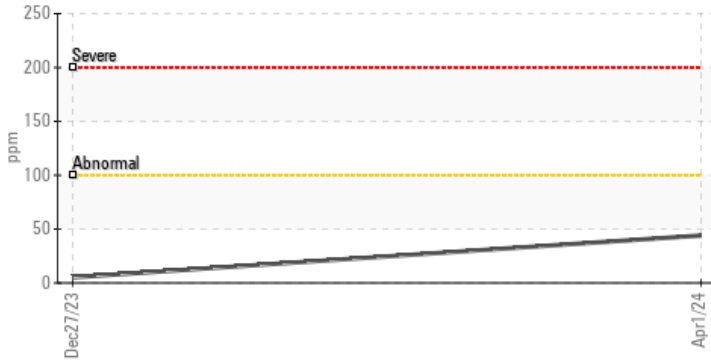


CONSTRUCTION EQUIPMENT

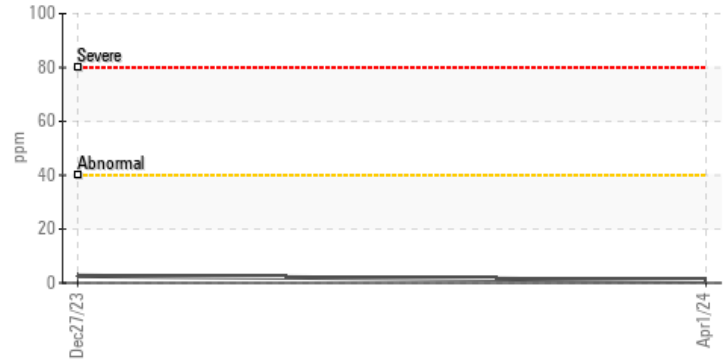


GRAPHS

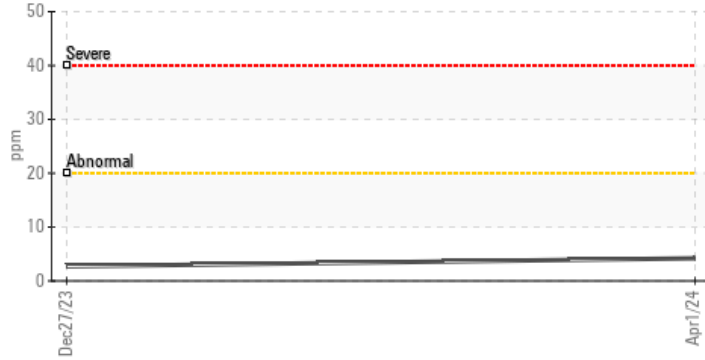
Iron (ppm)



Lead (ppm)



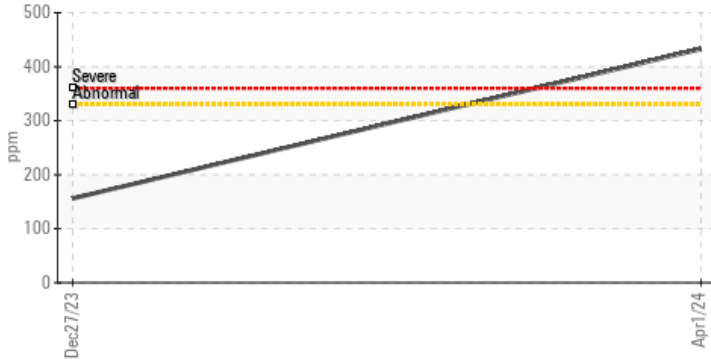
Aluminum (ppm)



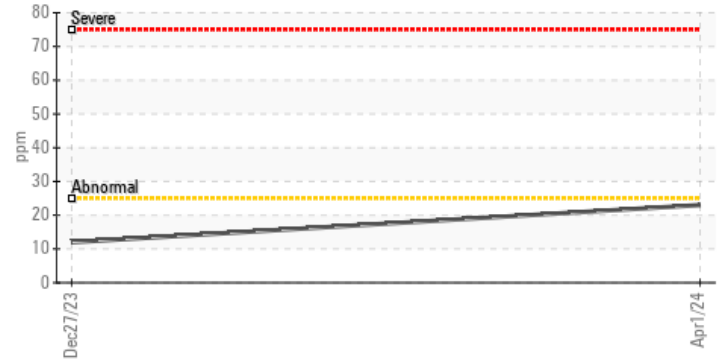
Chromium (ppm)



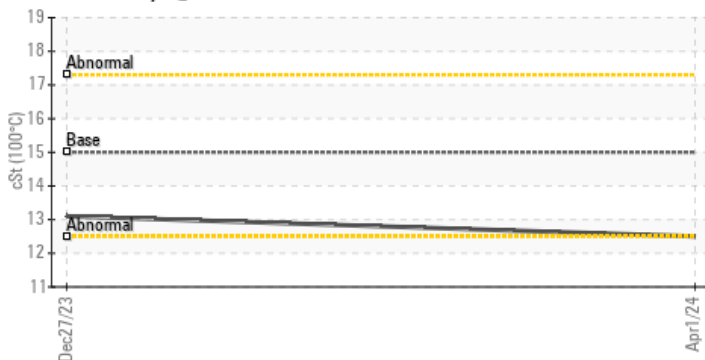
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

