



CONSTRUCTION EQUIPMENT

S50403248 VOLVO L150H 007274 - DIESEL ENGINE



Sample No: VCP446834
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: S50403248



SAMPLE INFORMATION

Sample Number	VCP446834	VCP438497	---	---
Sample Date	05 Apr 2024	18 Jan 2024	---	---
Machine Hours	1065	500	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

VCES- VOLVO CONSTRUCTION EQUIPMENT
9150 GOLDEN STATE HIGHWAY
BAKERSFIELD, CA
US 93308
Contact: FRANK VALENTE
frank.valente@vcesvolvo.com
T: (661)847-8234
F: (661)387-6091



OIL CONDITION

Visc @ 100°C	cSt	12.0	10.8	---	---
Base Number (BN)	mg KOH/g	9.2	5.7	---	---
Oxidation (PA)	%	81	57	---	---

Diagnosis

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level has decreased, but is still abnormal. All other 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. Confirm oil type.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	59	78	---	---
Sulfation (PA)	%	63	51	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.9	---	---
Silicon	ppm	10	24	---	---
Sodium	ppm	1	2	---	---
Potassium	ppm	2	3	---	---



WEAR METALS

Iron	ppm	6	7	---	---
Copper	ppm	92	510	---	---
Lead	ppm	1	7	---	---
Tin	ppm	2	2	---	---
Aluminum	ppm	1	2	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	44	85	---	---
Nickel	ppm	1	<1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	1	2	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	1709	1983	---	---
Magnesium	ppm	433	16	---	---
Zinc	ppm	1108	1140	---	---
Phosphorus	ppm	1008	993	---	---
Barium	ppm	0	<1	---	---
Boron	ppm	50	54	---	---

Depot: VOLVO4484
Unique No: 10982930
Signed: Don Baldrige
Report Date: 22 Apr 2024

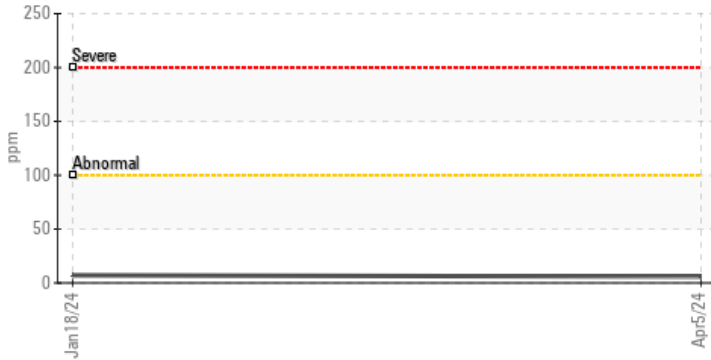


CONSTRUCTION EQUIPMENT

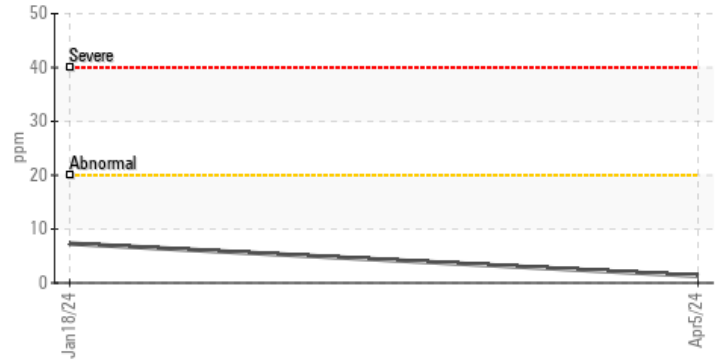


GRAPHS

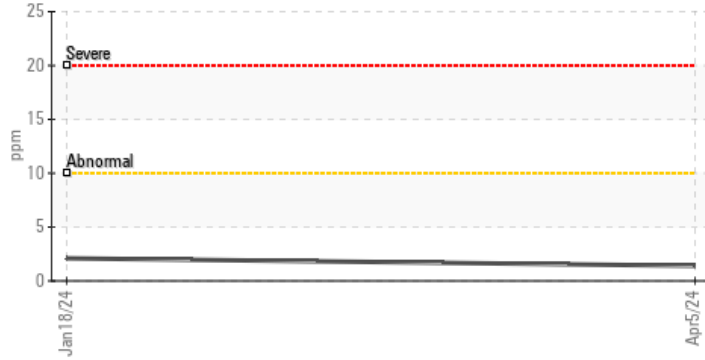
Iron (ppm)



Lead (ppm)



Aluminum (ppm)



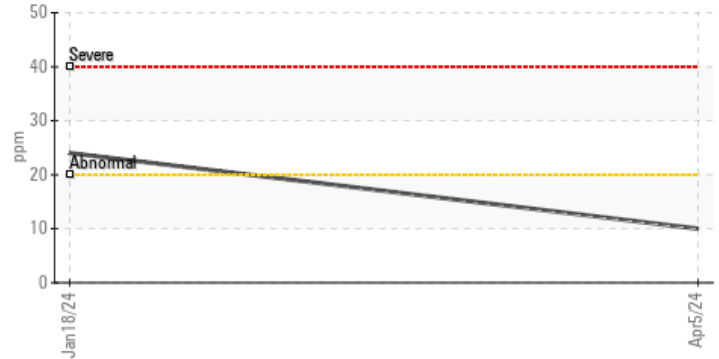
Chromium (ppm)



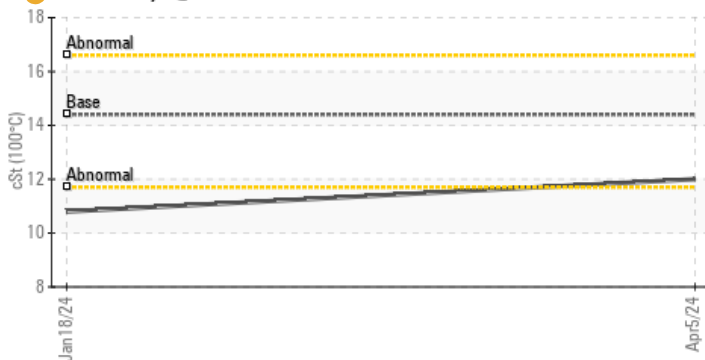
Copper (ppm)



Silicon (ppm)



● Viscosity @ 100°C



Base Number

