



CONSTRUCTION EQUIPMENT

S50403922 LKQ VOLVO L90H 625444 - DIESEL ENGINE



Sample No: VCP455419
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: S50403922 LKQ



SAMPLE INFORMATION

Sample Number	VCP455419	VCP294803	---	---
Sample Date	21 Jun 2024	18 Mar 2021	---	---
Machine Hours	3720	711	---	---
Oil Hours	285	0	---	---
Oil Changed	Not Chngd	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

VCES- VOLVO CONSTRUCTION EQUIPMENT
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OIL CONDITION

Visc @ 100°C	cSt	█ 12.9	█ 14.0	---	---
Base Number (BN)	mg KOH/g	█ 10.3	---	---	---
Oxidation (PA)	%	75	47	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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 %	%	█ 0.1	█ 0.1	---	---
Nitration (PA)	%	48	56	---	---
Sulfation (PA)	%	60	49	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	█ 0.3	<1.0	---	---
Silicon	ppm	█ 4	█ 6	---	---
Sodium	ppm	█ <1	█ 2	---	---
Potassium	ppm	█ 2	█ 0	---	---



WEAR METALS

Iron	ppm	█ 3	█ 9	---	---
Copper	ppm	█ <1	█ 1	---	---
Lead	ppm	█ <1	█ 4	---	---
Tin	ppm	█ <1	█ 0	---	---
Aluminum	ppm	█ 3	█ 2	---	---
Chromium	ppm	█ <1	█ 1	---	---
Molybdenum	ppm	█ 37	█ 18	---	---
Nickel	ppm	█ <1	█ <1	---	---
Titanium	ppm	<1	█ <1	---	---
Silver	ppm	█ <1	<1	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 1596	█ 2202	---	---
Magnesium	ppm	█ 501	█ 226	---	---
Zinc	ppm	█ 1083	█ 1080	---	---
Phosphorus	ppm	█ 850	█ 958	---	---
Barium	ppm	█ 1	█ 0	---	---
Boron	ppm	█ 66	█ 12	---	---

Depot: VOLVO4486
Unique No: 11097753
Signed: Jonathan Hester
Report Date: 28 Jun 2024



CONSTRUCTION EQUIPMENT

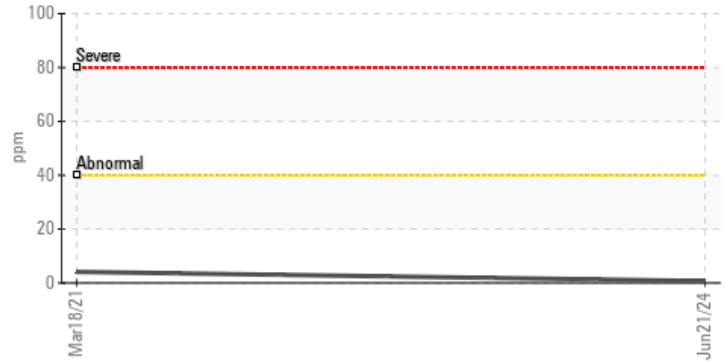


GRAPHS

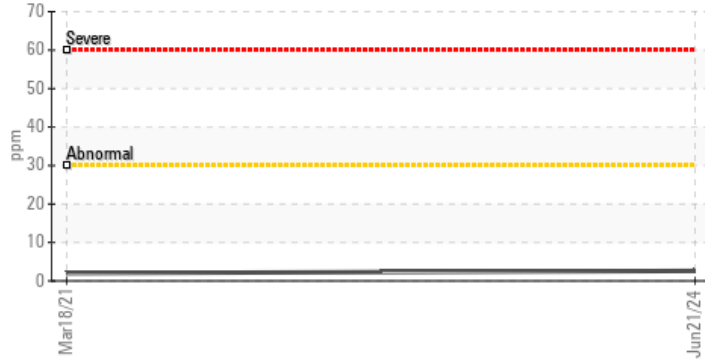
Iron (ppm)



Lead (ppm)



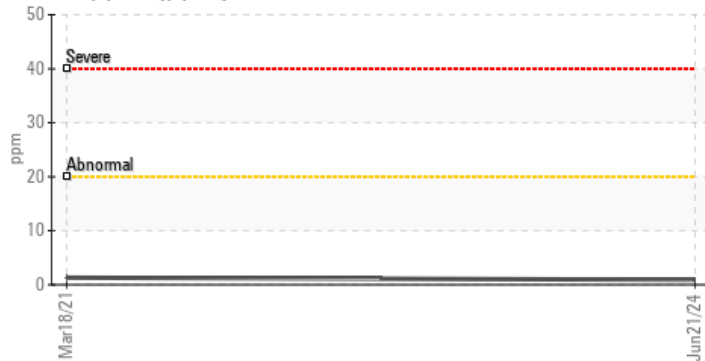
Aluminum (ppm)



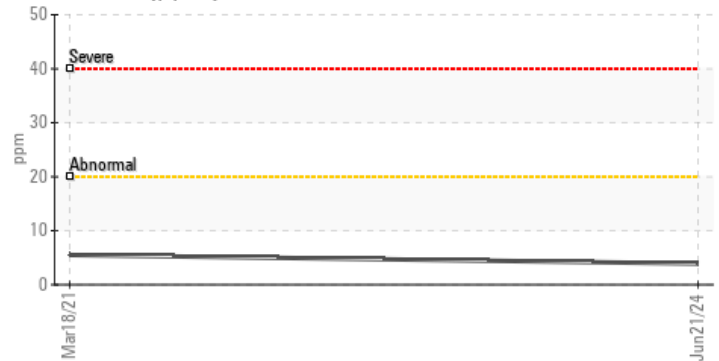
Chromium (ppm)



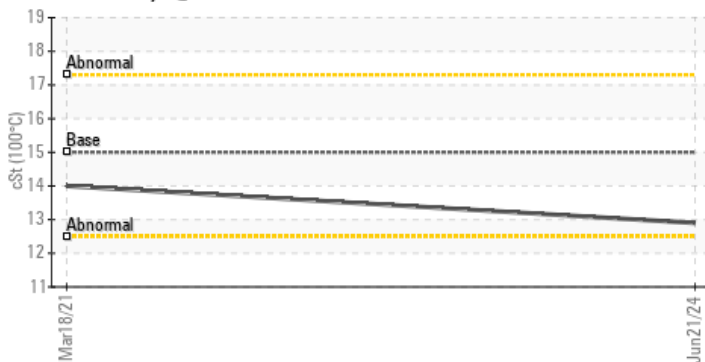
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

