



CONSTRUCTION EQUIPMENT

VOLVO A40G 353267 - DIESEL ENGINE



Sample No: VCP447745
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP447745	VCP445620	---	---
Sample Date	04 Jun 2024	25 Apr 2024	---	---
Machine Hours	2719	2215	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	ABNORMAL	---	---

ALTA EQUIPMENT COMPANY
 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905
 Contact: TODD LARK
 tlark@altaequipfl.com
 T:
 F: (239)481-3302



OIL CONDITION

Visc @ 100°C	cSt	● 11.9	● 12.2	---	---
Base Number (BN)	mg KOH/g	■ 9.5	■ 4.7	---	---
Oxidation (PA)	%	78	92	---	---

Diagnosis

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. Confirm oil type.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.3	■ 0.6	---	---
Nitration (PA)	%	62	94	---	---
Sulfation (PA)	%	61	71	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	■ 2.0	---	---
Silicon	ppm	■ 4	■ 12	---	---
Sodium	ppm	■ <1	■ 2	---	---
Potassium	ppm	■ 1	■ 2	---	---



WEAR METALS

Iron	ppm	■ 7	■ 26	---	---
Copper	ppm	■ 9	■ 50	---	---
Lead	ppm	■ <1	■ <1	---	---
Tin	ppm	■ 1	■ 2	---	---
Aluminum	ppm	■ 2	■ 3	---	---
Chromium	ppm	■ <1	■ <1	---	---
Molybdenum	ppm	■ 44	■ 43	---	---
Nickel	ppm	■ 3	▲ 6	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ <1	■ 1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	■ 1575	■ 1660	---	---
Magnesium	ppm	■ 469	■ 447	---	---
Zinc	ppm	■ 1015	■ 1045	---	---
Phosphorus	ppm	■ 825	■ 824	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 34	■ 5	---	---

Depot: VOLVO0090
Unique No: 11073568
Signed: Sean Felton
Report Date: 13 Jun 2024

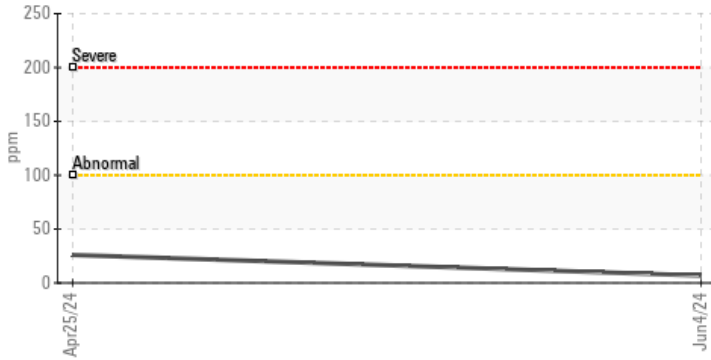


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GRAPHS

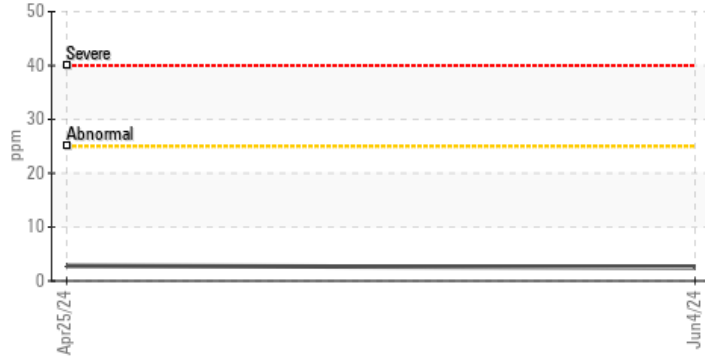
Iron (ppm)



Lead (ppm)



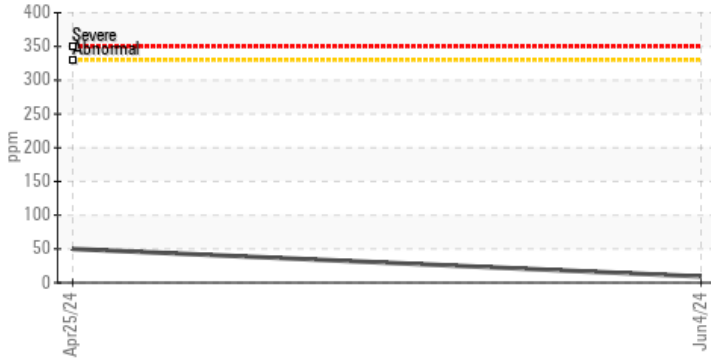
Aluminum (ppm)



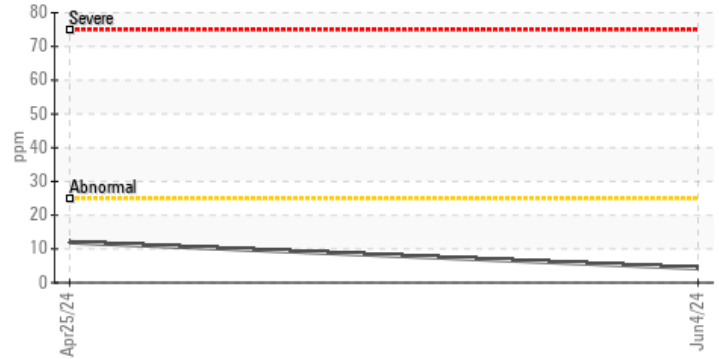
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



● Viscosity @ 100°C



Base Number

