



CONSTRUCTION EQUIPMENT

578354 T&K CONSTRUCT VOLVO A45 752 152 - DIESEL ENGINE



Sample No: VCP443940
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 578354 T&K CONSTRUCT



SAMPLE INFORMATION

Sample Number	VCP443940	VCP437075	---	---
Sample Date	07 Jun 2024	15 Mar 2024	---	---
Machine Hours	967	499	---	---
Oil Hours	967	0	---	---
Oil Changed	Not Chngd	Changed	---	---
Sample Status	ATTENTION	ABNORMAL	---	---

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: JOHN FARDELLA
 john.fardella@altg.com
 T: (813)630-0077
 F: (813)630-2233



OIL CONDITION

Visc @ 100°C	cSt	11.7	10.8	---	---
Base Number (BN)	mg KOH/g	8.9	6.1	---	---
Oxidation (PA)	%	72	53	---	---

Diagnosis

No corrective action is recommended at this time. 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 %	%	0.2	0.2	---	---
Nitration (PA)	%	62	74	---	---
Sulfation (PA)	%	60	51	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.7	---	---
Silicon	ppm	9	27	---	---
Sodium	ppm	3	2	---	---
Potassium	ppm	0	3	---	---



WEAR METALS

Iron	ppm	8	19	---	---
Copper	ppm	110	437	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	<1	5	---	---
Aluminum	ppm	<1	2	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	44	84	---	---
Nickel	ppm	0	3	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1639	2278	---	---
Magnesium	ppm	481	17	---	---
Zinc	ppm	1049	1220	---	---
Phosphorus	ppm	913	1061	---	---
Barium	ppm	0	0	---	---
Boron	ppm	31	48	---	---

Depot: VOLVO0093
Unique No: 11126334
Signed: Sean Felton
Report Date: 18 Jul 2024

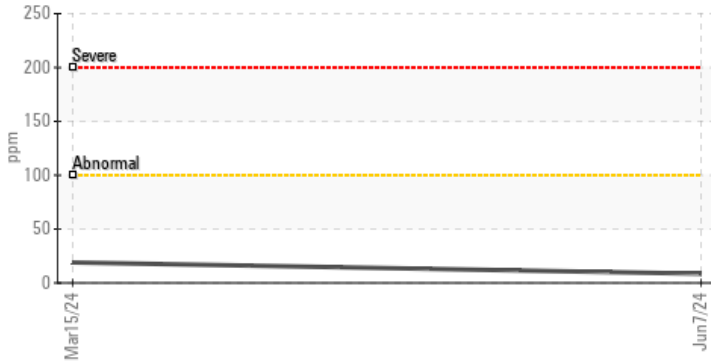


CONSTRUCTION EQUIPMENT

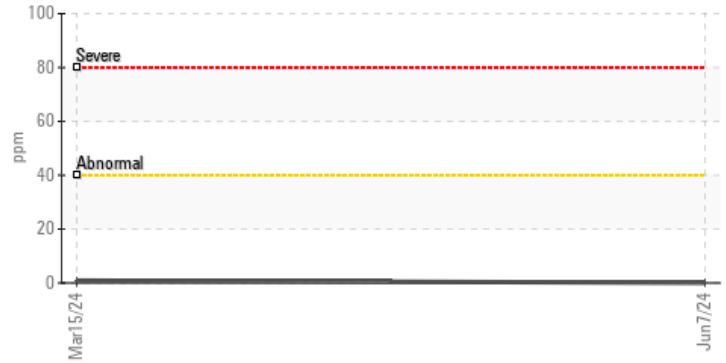


GRAPHS

Iron (ppm)



Lead (ppm)



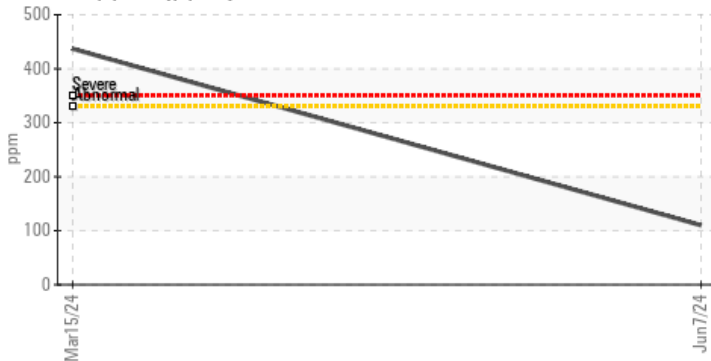
Aluminum (ppm)



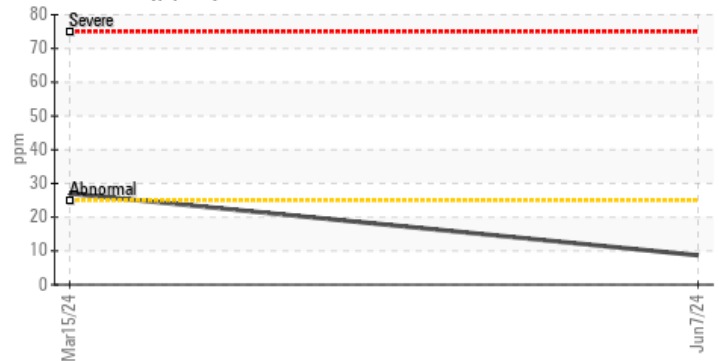
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



● Viscosity @ 100°C



Base Number

