



CONSTRUCTION EQUIPMENT

S50401772 PYP JURUPA VOLVO L90H 624450 - DIESEL ENGINE



Sample No: VCP434563
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: S50401772 PYP JURUPA



SAMPLE INFORMATION

Sample Number	VCP434563	VCP281675	---	---
Sample Date	05 Oct 2023	19 Aug 2020	---	---
Machine Hours	0	3651	---	---
Oil Hours	0	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---



VCES- VOLVO CONSTRUCTION EQUIPMENT
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OIL CONDITION

Visc @ 100°C	cSt	12.9	13.5	---	---
Base Number (BN)	mg KOH/g	3.6	---	---	---
Oxidation (PA)	%	113	96	---	---



CONTAMINATION

Soot %	%	0.2	1	---	---
Nitration (PA)	%	103	95	---	---
Sulfation (PA)	%	73	73	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	14	52	---	---
Sodium	ppm	4	6	---	---
Potassium	ppm	4	18	---	---



WEAR METALS

Iron	ppm	14	47	---	---
Copper	ppm	14	3	---	---
Lead	ppm	6	7	---	---
Tin	ppm	2	0	---	---
Aluminum	ppm	3	24	---	---
Chromium	ppm	<1	2	---	---
Molybdenum	ppm	49	17	---	---
Nickel	ppm	2	<1	---	---
Titanium	ppm	<1	1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1579	1604	---	---
Magnesium	ppm	476	664	---	---
Zinc	ppm	1110	797	---	---
Phosphorus	ppm	895	667	---	---
Barium	ppm	0	<1	---	---
Boron	ppm	20	22	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 BN level is low. The condition of the oil is acceptable for the time in service.

Depot: VOLVO4486
Unique No: 10724530
Signed: Jonathan Hester
Report Date: 06 Nov 2023

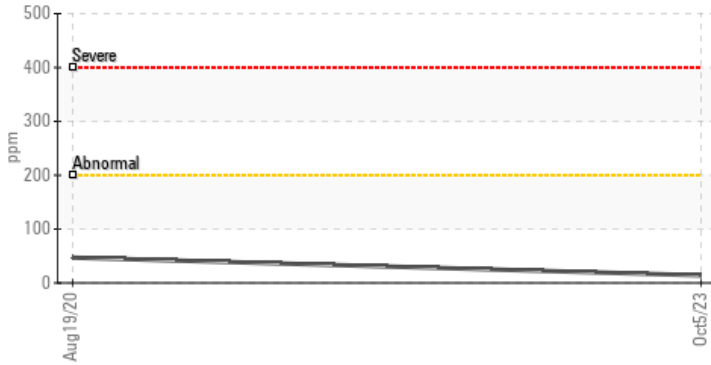


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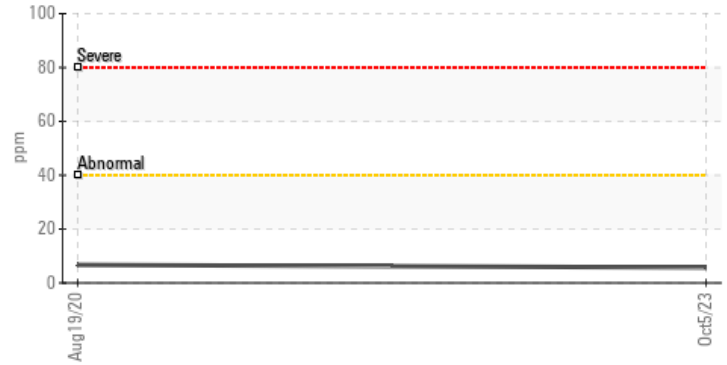


GRAPHS

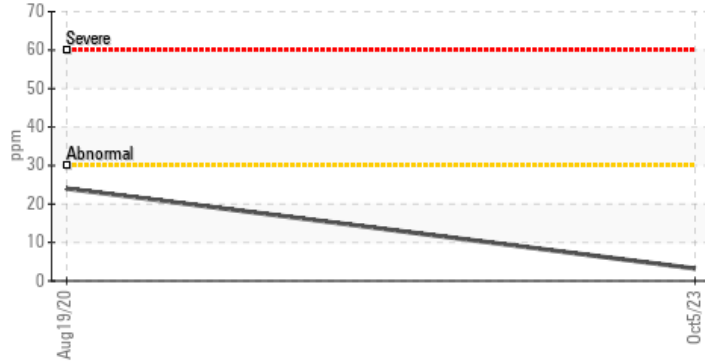
Iron (ppm)



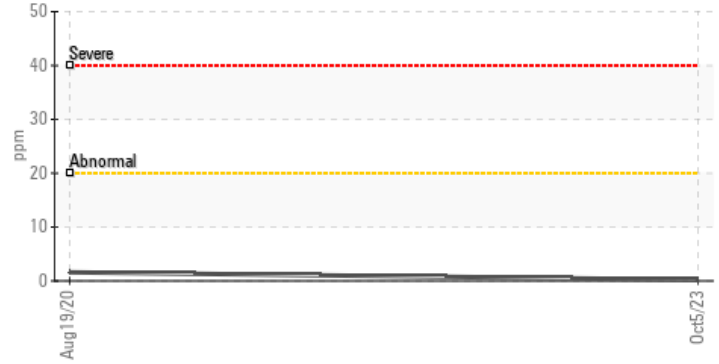
Lead (ppm)



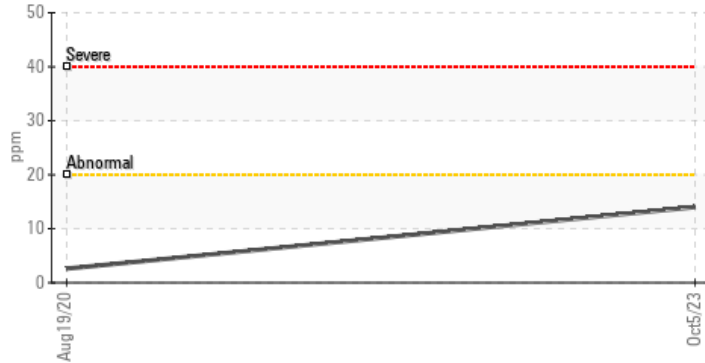
Aluminum (ppm)



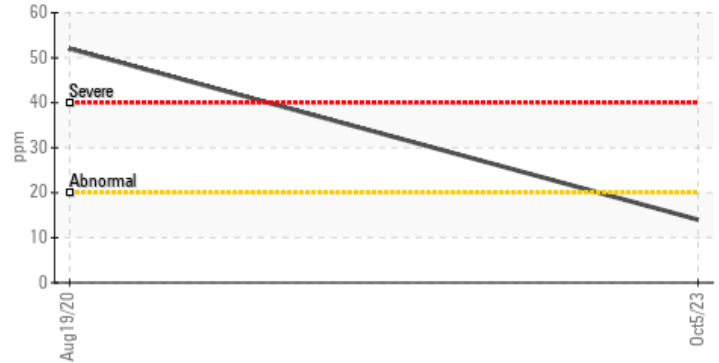
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



▲ Base Number

