



CONSTRUCTION EQUIPMENT

687075 DIPRO MCCLOSKEY S190 90096 - DIESEL ENGINE



Sample No: VCP447055
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 687075 DIPRO



SAMPLE INFORMATION

Sample Number	VCP447055	VCP426805	---	---
Sample Date	02 Apr 2024	18 Apr 2023	---	---
Machine Hours	3461	2508	---	---
Oil Hours	500	1397	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	13.5	12.6	---	---
Base Number (BN)	mg KOH/g	5.6	5.3	---	---
Oxidation (PA)	%	125	111	---	---

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 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 %	%	0.3	0.2	---	---
Nitration (PA)	%	134	114	---	---
Sulfation (PA)	%	75	72	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	5	6	---	---
Sodium	ppm	5	3	---	---
Potassium	ppm	<1	0	---	---



WEAR METALS

Iron	ppm	53	43	---	---
Copper	ppm	13	31	---	---
Lead	ppm	<1	0	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	10	7	---	---
Chromium	ppm	1	<1	---	---
Molybdenum	ppm	60	114	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	1410	1687	---	---
Magnesium	ppm	746	641	---	---
Zinc	ppm	1123	1022	---	---
Phosphorus	ppm	1001	777	---	---
Barium	ppm	0	0	---	---
Boron	ppm	14	93	---	---

Depot: VOLVO2990
Unique No: 10968735
Signed: Jonathan Hester
Report Date: 12 Apr 2024

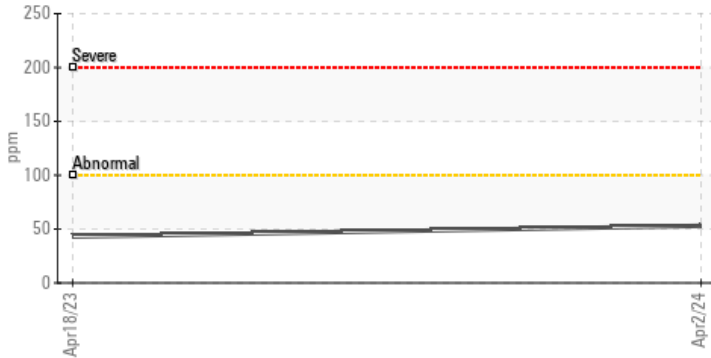


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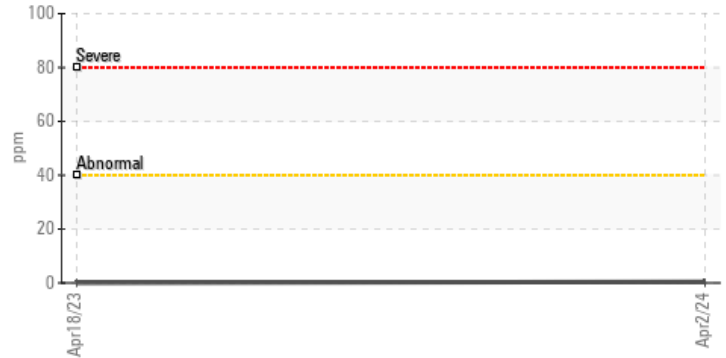


GRAPHS

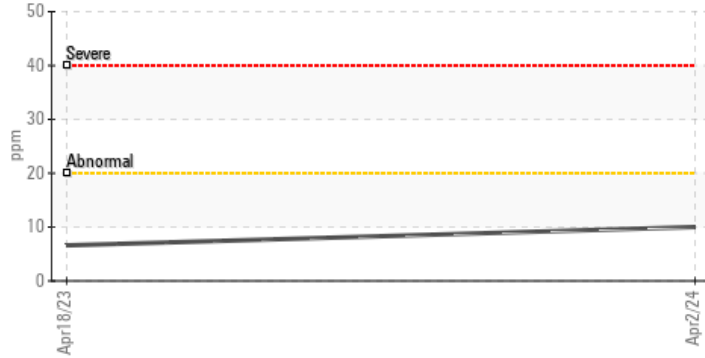
Iron (ppm)



Lead (ppm)



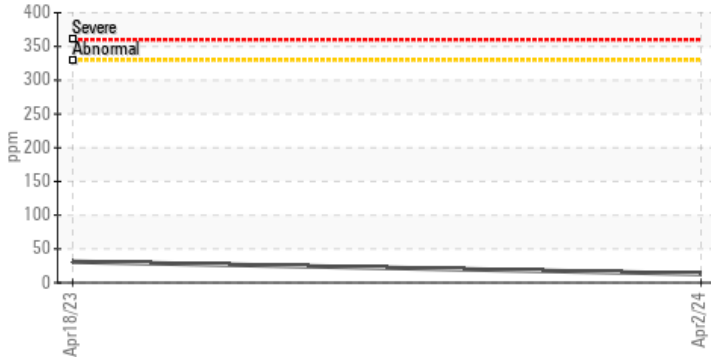
Aluminum (ppm)



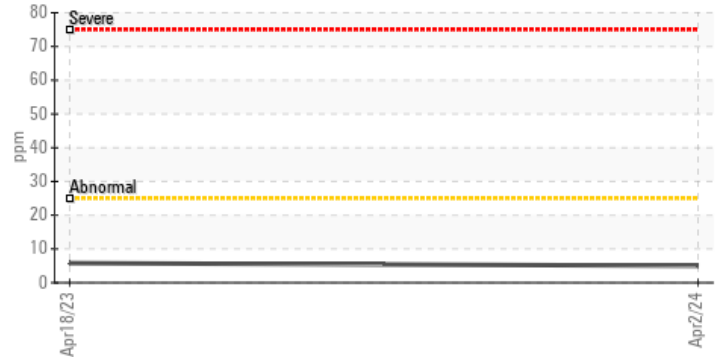
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

