



CONSTRUCTION EQUIPMENT

VOLVO EC950FL 410168 - DIESEL ENGINE



Sample No: VCP449692
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP449692	VCP446913	VCP436260	---
Sample Date	17 Jul 2024	23 Mar 2024	15 Jan 2024	---
Machine Hours	1948	1218	731	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	N/A	---
Sample Status	NORMAL	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	13.6	11.7	11.2	---
Base Number (BN)	mg KOH/g	5.2	7.7	5.4	---
Oxidation (PA)	%	98	78	68	---

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	NEG	---
Soot %	%	2.5	1.4	1.9	---
Nitration (PA)	%	108	81	96	---
Sulfation (PA)	%	80	63	65	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	3.1	---
Silicon	ppm	14	11	39	---
Sodium	ppm	4	2	5	---
Potassium	ppm	5	3	22	---



WEAR METALS

Iron	ppm	26	21	57	---
Copper	ppm	24	51	132	---
Lead	ppm	0	<1	2	---
Tin	ppm	0	1	6	---
Aluminum	ppm	5	4	10	---
Chromium	ppm	1	1	3	---
Molybdenum	ppm	44	49	74	---
Nickel	ppm	2	2	8	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	2	---
Vanadium	ppm	0	<1	<1	---



ADDITIVES

Calcium	ppm	1791	1799	2157	---
Magnesium	ppm	447	493	47	---
Zinc	ppm	1042	1065	1103	---
Phosphorus	ppm	837	856	925	---
Barium	ppm	0	0	0	---
Boron	ppm	8	14	8	---

Depot: VOLVO0090
Unique No: 11130118
Signed: Wes Davis
Report Date: 20 Jul 2024

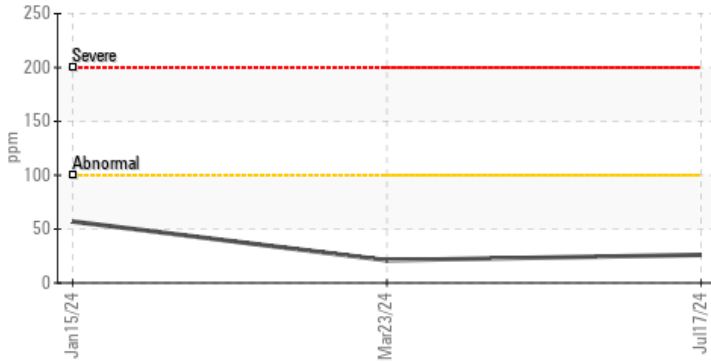


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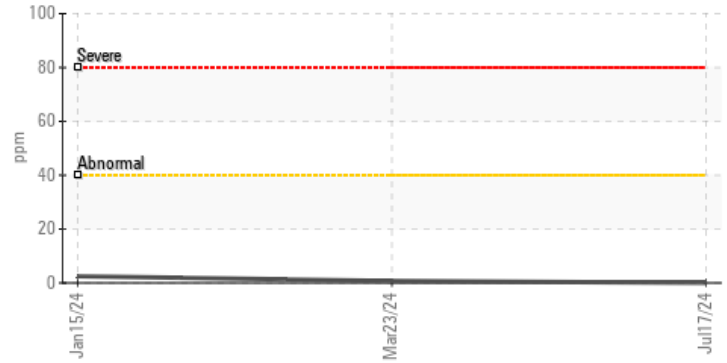


GRAPHS

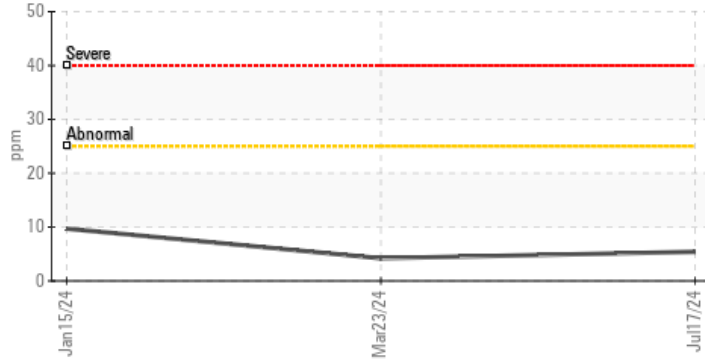
Iron (ppm)



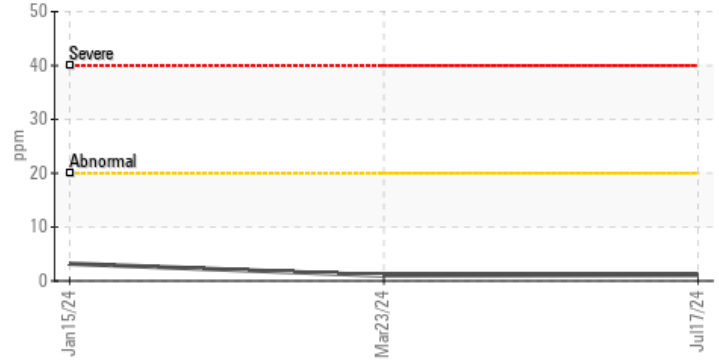
Lead (ppm)



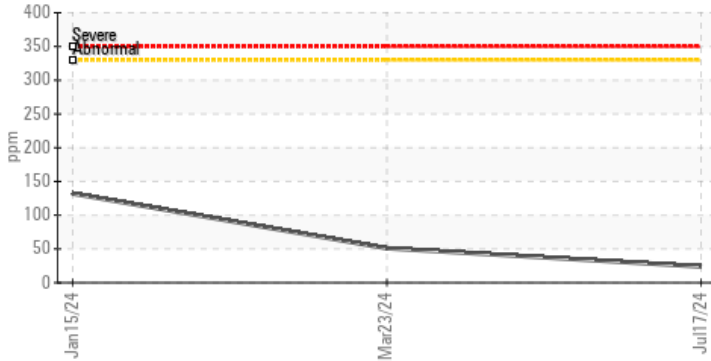
Aluminum (ppm)



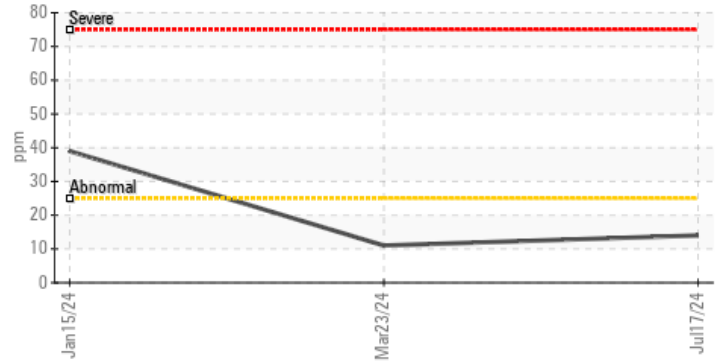
Chromium (ppm)



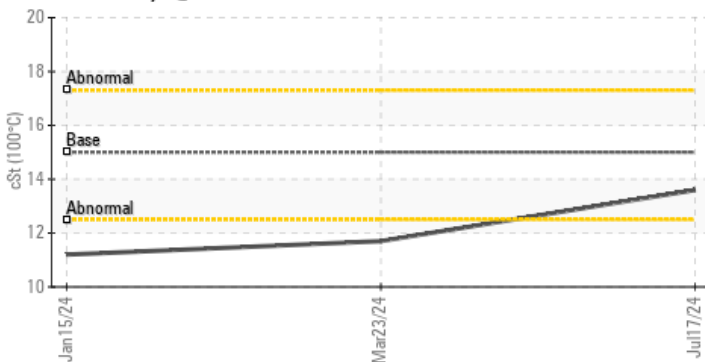
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

