



CONSTRUCTION EQUIPMENT

1035803 EWING IRRIGA VOLVO L50H 4322067 - DIESEL ENGINE



Sample No: VCP454023
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: 1035803 EWING IRRIGA



SAMPLE INFORMATION

Sample Number	VCP454023	VCP441021	VCP406956	VCP403606
Sample Date	05 Jun 2024	03 Nov 2023	30 Jun 2023	28 Mar 2023
Machine Hours	7291	6741	6239	5554
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.8	13.3	14.1
Base Number (BN)	mg KOH/g	9.2	9.6	8.2	7.0
Oxidation (PA)	%	82	77	71	58

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	NEG
Soot %	%	0.7	0.3	0.6	0.7
Nitration (PA)	%	74	65	74	83
Sulfation (PA)	%	61	58	57	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	6	5	6
Sodium	ppm	1	2	2	2
Potassium	ppm	2	<1	0	<1



WEAR METALS

Iron	ppm	14	6	15	16
Copper	ppm	8	4	4	5
Lead	ppm	0	0	0	0
Tin	ppm	<1	0	<1	0
Aluminum	ppm	3	2	2	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	45	47	63	91
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1555	1726	1440	2355
Magnesium	ppm	556	436	679	43
Zinc	ppm	1154	1208	1235	1325
Phosphorus	ppm	954	961	1011	1108
Barium	ppm	0	0	0	0
Boron	ppm	34	40	19	54

Depot: VOLVO6174
Unique No: 11073564
Signed: Wes Davis
Report Date: 12 Jun 2024

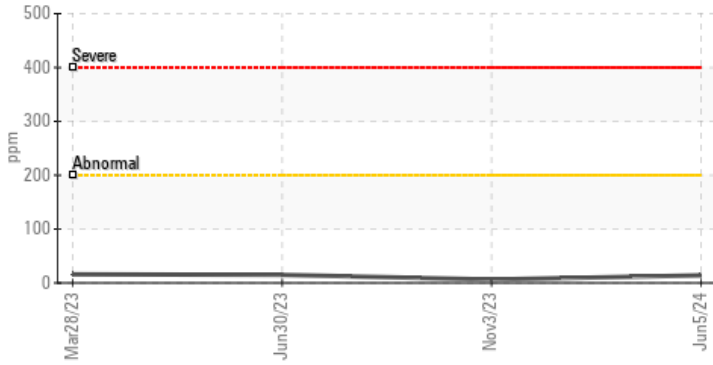


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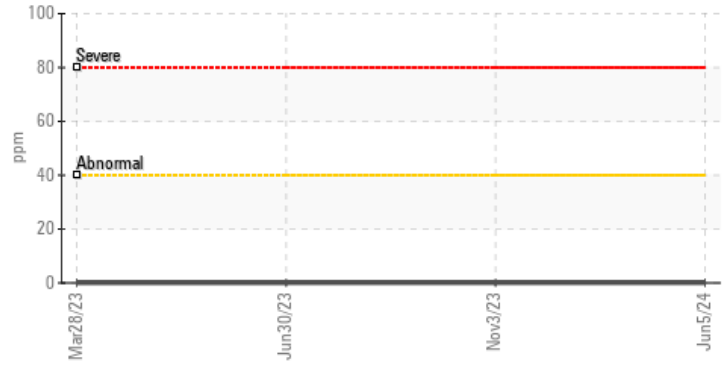


GRAPHS

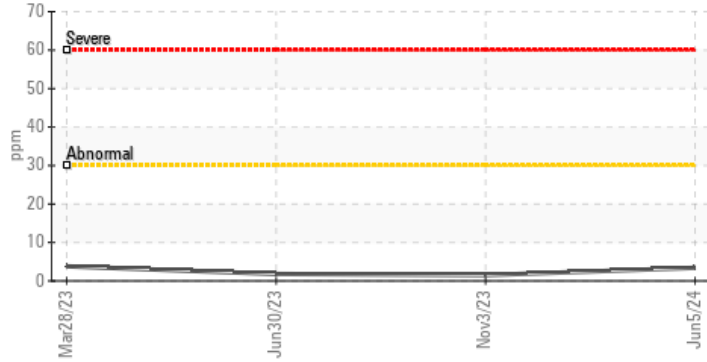
Iron (ppm)



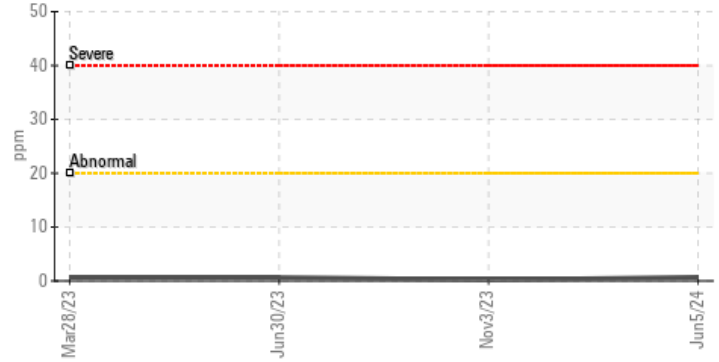
Lead (ppm)



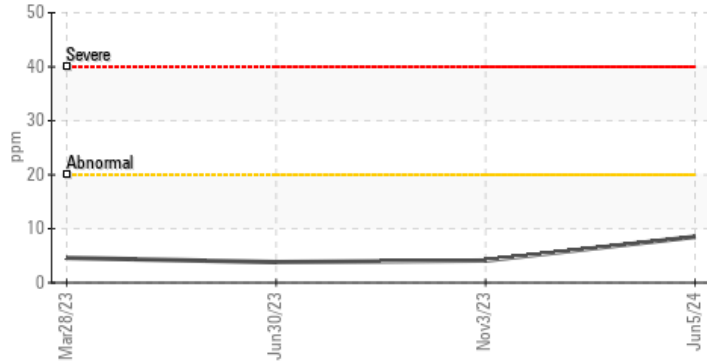
Aluminum (ppm)



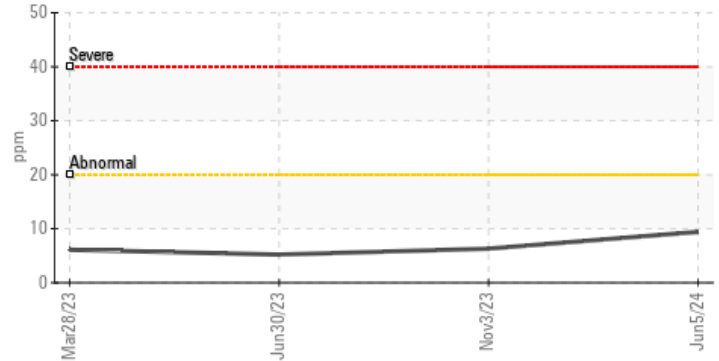
Chromium (ppm)



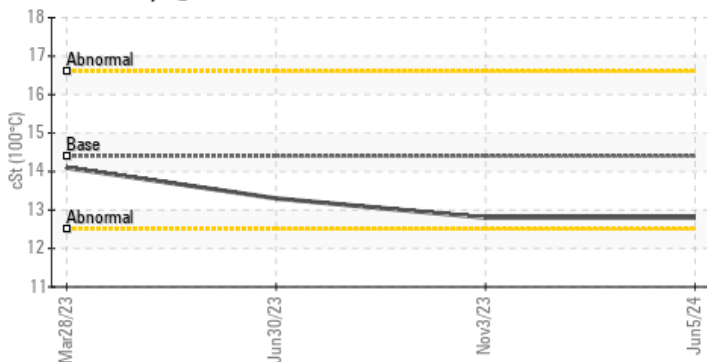
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

