



CONSTRUCTION EQUIPMENT

D13184 WM RECYCLING VOLVO L70H 624717 - DIESEL ENGINE



Sample No: VCP418992
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: D13184 WM RECYCLING



SAMPLE INFORMATION

Sample Number	VCP418992	VCP193614	VCP430781	VCP429537
Sample Date	13 Jan 2024	11 Dec 2023	30 Nov 2023	19 Oct 2023
Machine Hours	3819	3591	3491	3224
Oil Hours	490	100	0	258
Oil Changed	N/A	Not Changd	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.73	12.7	13.4	12.9
Base Number (BN)	mg KOH/g	10.3	10.6	10.0	9.5
Oxidation (PA)	%	83	79	87	77

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 %	%	0.4	0.2	0.7	0.4
Nitration (PA)	%	61	48	72	53
Sulfation (PA)	%	63	62	65	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	7	6
Sodium	ppm	2	0	0	2
Potassium	ppm	<1	2	2	0



WEAR METALS

Iron	ppm	9	6	15	9
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	2	5	4
Chromium	ppm	<1	<1	1	<1
Molybdenum	ppm	37	40	47	45
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1572	1605	1728	1750
Magnesium	ppm	474	477	517	525
Zinc	ppm	1062	1064	1171	1217
Phosphorus	ppm	928	881	1003	1012
Barium	ppm	0	12	0	0
Boron	ppm	37	57	32	44

Depot: VOLVO0069
Unique No: 10843778
Signed: Sean Felton
Report Date: 24 Jan 2024

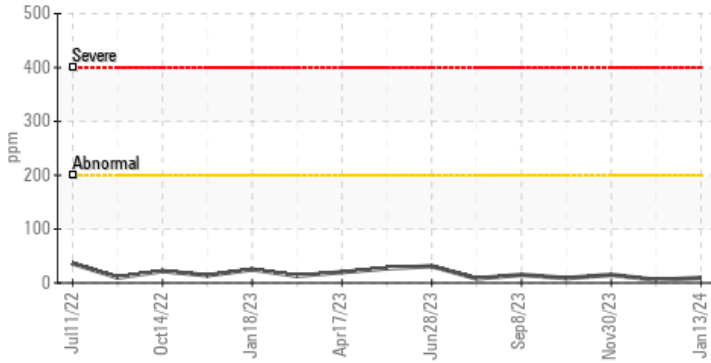


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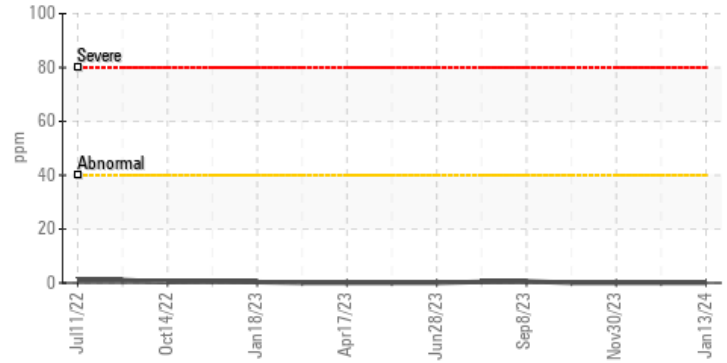


GRAPHS

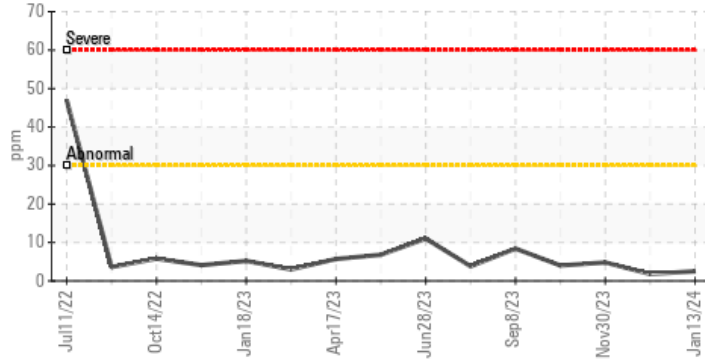
Iron (ppm)



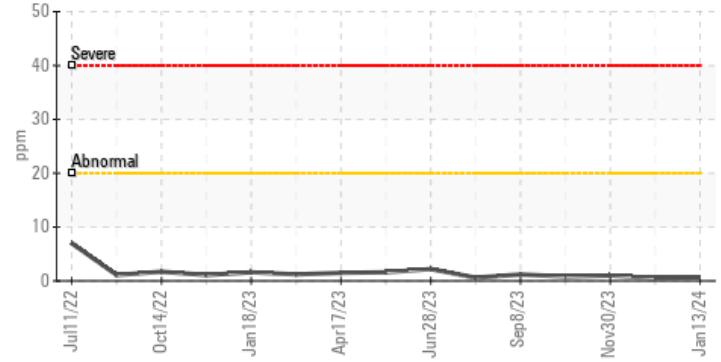
Lead (ppm)



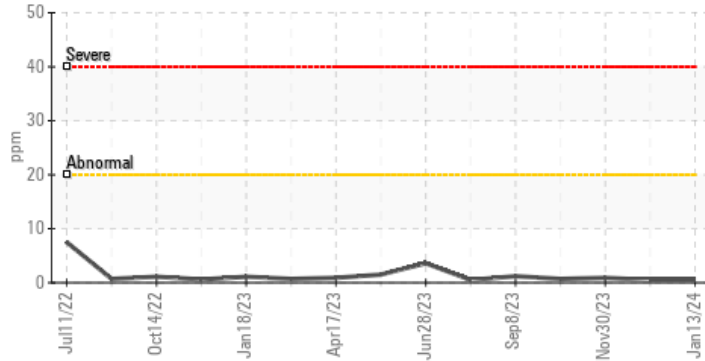
Aluminum (ppm)



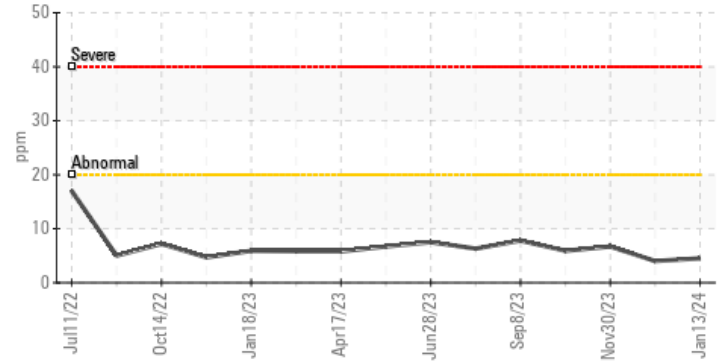
Chromium (ppm)



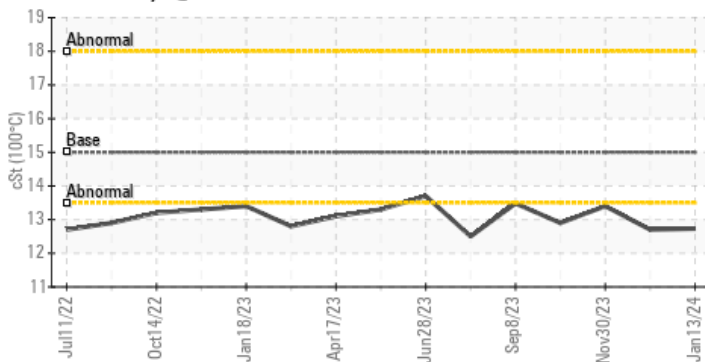
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

