



CONSTRUCTION EQUIPMENT

4883 IAA VOLVO L90H 623702 - DIESEL ENGINE



Sample No: VCP438145
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 4883 IAA



SAMPLE INFORMATION

Sample Number	VCP438145	VCP396604	VCP375104	VCP346505
Sample Date	09 Jan 2024	23 Jan 2023	21 Jul 2022	01 Mar 2022
Machine Hours	9535	8975	8523	8020
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.8	13.6	13.1
Base Number (BN)	mg KOH/g	9.2	9.9	11.2	10.2
Oxidation (PA)	%	72	85	90	97

Diagnosis



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.7	0.5	0.7	0.7
Nitration (PA)	%	71	64	77	89
Sulfation (PA)	%	57	63	67	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	6	6
Sodium	ppm	0	2	0	2
Potassium	ppm	0	0	1	<1



WEAR METALS

Iron	ppm	9	8	10	14
Copper	ppm	1	<1	<1	1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	▲ 22	▲ 17	▲ 15	▲ 30
Chromium	ppm	1	<1	<1	2
Molybdenum	ppm	51	42	46	39
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1262	1651	1854	1757
Magnesium	ppm	829	517	509	528
Zinc	ppm	1250	1065	1178	1231
Phosphorus	ppm	1017	887	986	990
Barium	ppm	0	0	0	0
Boron	ppm	0	36	33	24

Depot: VOLVO0096
Unique No: 10830437
Signed: Don Baldrige
Report Date: 15 Jan 2024

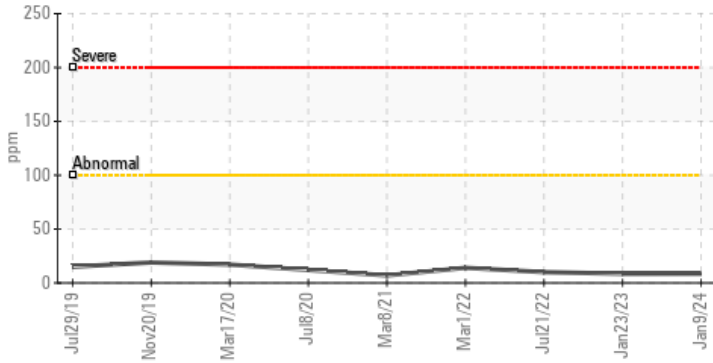


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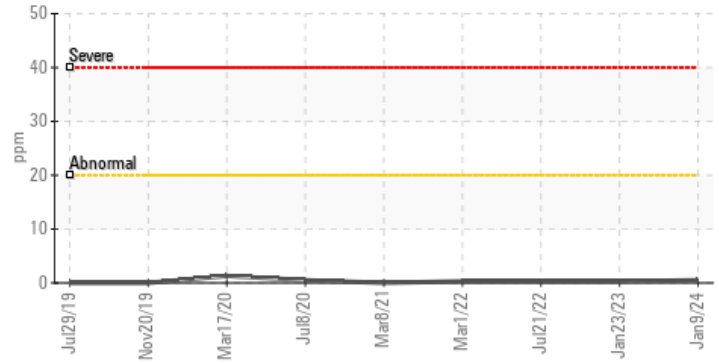


GRAPHS

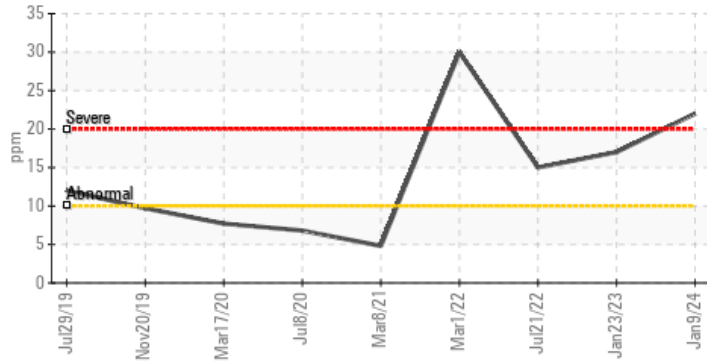
Iron (ppm)



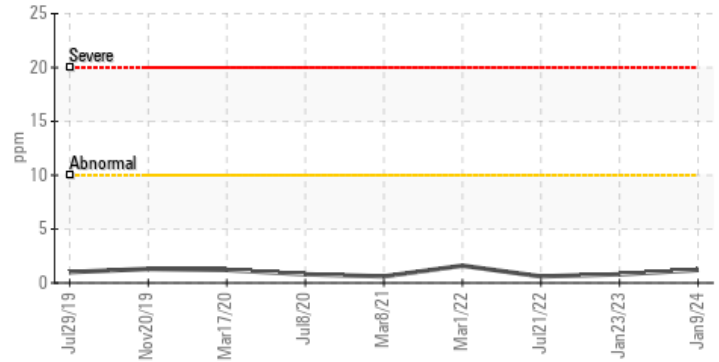
Lead (ppm)



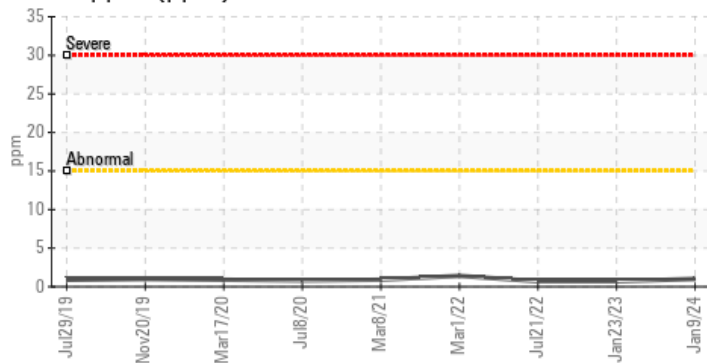
Aluminum (ppm)



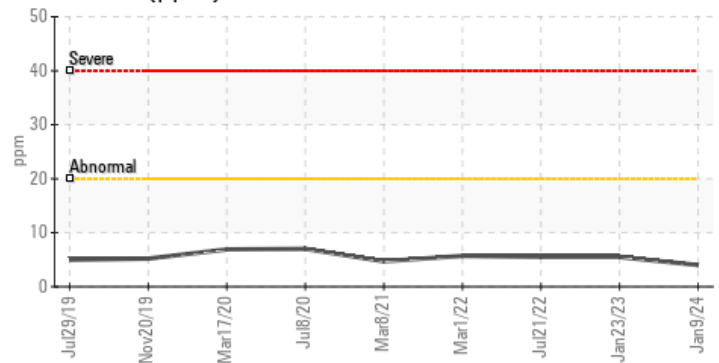
Chromium (ppm)



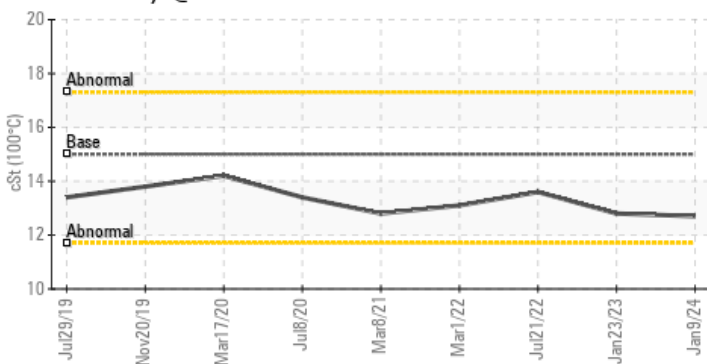
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

