



CONSTRUCTION EQUIPMENT

6019-1 VOLVO L90H 624581 - DIESEL ENGINE



Sample No: VCP417239
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 6019-1



SAMPLE INFORMATION

Sample Number	VCP417239	VCP415790	VCP396030	VCP386434
Sample Date	06 Feb 2024	21 Jun 2023	09 Mar 2023	26 Oct 2022
Machine Hours	9072	8370	8032	7636
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

IAA - INSURANCE AUTO AUCTIONS - PULASKI
 1250 E MAIN ST
 PULASKI, VA
 US 24301
 Contact: Service Manager

OIL CONDITION

Visc @ 100°C	cSt	14.1	13.3	13.5	13.4
Base Number (BN)	mg KOH/g	7.9	7.5	9.0	11.3
Oxidation (PA)	%	51	63	69	92

T:
F:

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 acceptable for the time in service.

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0.3	0.5
Nitration (PA)	%	50	59	63	75
Sulfation (PA)	%	48	54	57	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	12	5	3	6
Sodium	ppm	1	1	<1	0
Potassium	ppm	3	1	2	2

WEAR METALS

Iron	ppm	3	5	6	11
Copper	ppm	<1	<1	<1	1
Lead	ppm	<1	0	<1	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	4	2	4	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	109	72	61	40
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0

ADDITIVES

Calcium	ppm	2592	1823	1889	1809
Magnesium	ppm	485	407	373	481
Zinc	ppm	1761	1310	1168	1116
Phosphorus	ppm	1508	1058	996	912
Barium	ppm	0	0	2	<1
Boron	ppm	129	207	101	30

Depot: IAAPUL
Unique No: 10872647
Signed: Don Baldrige
Report Date: 12 Feb 2024

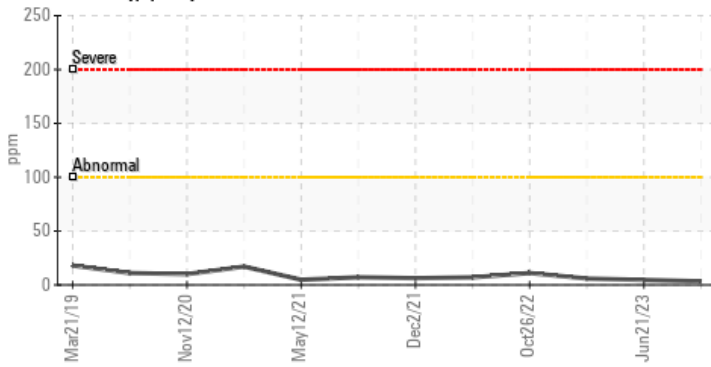


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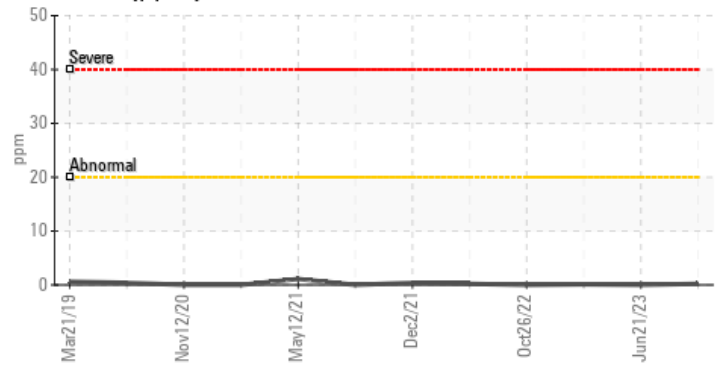


GRAPHS

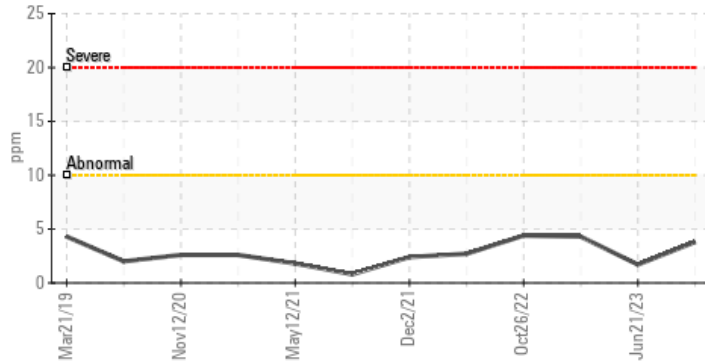
Iron (ppm)



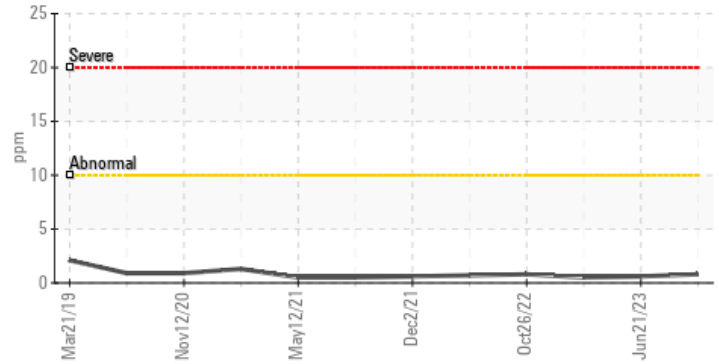
Lead (ppm)



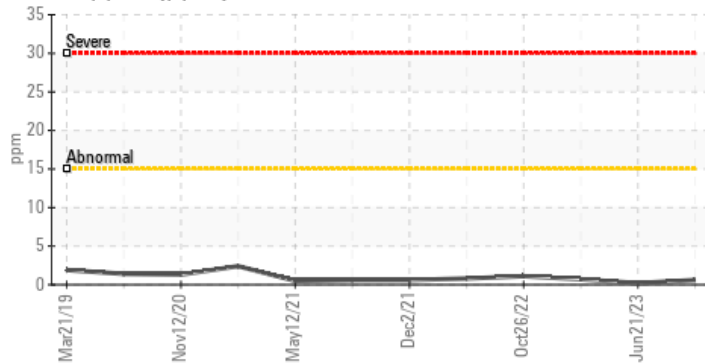
Aluminum (ppm)



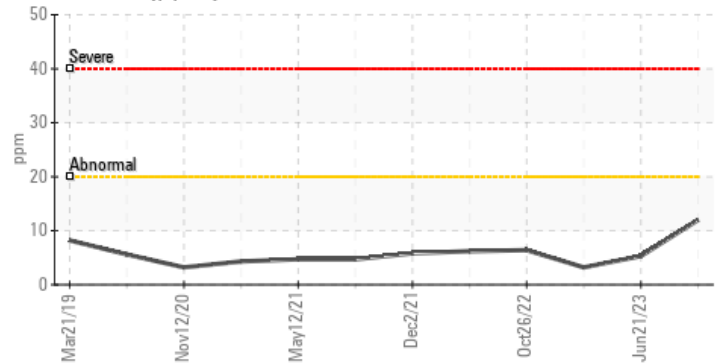
Chromium (ppm)



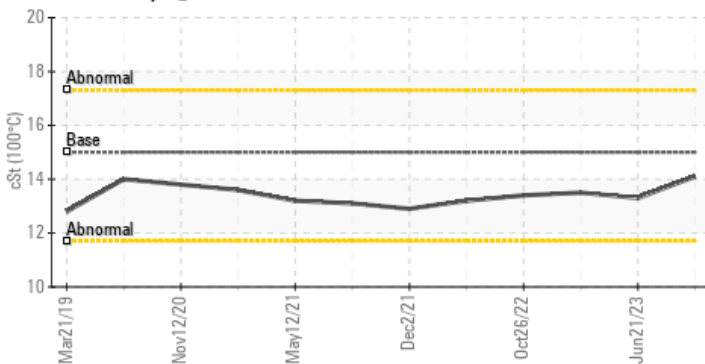
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

