



CONSTRUCTION EQUIPMENT

1990 IAA RANCHO CORD VOLVO L90H 625096 - DIESEL ENGINE



Sample No: VCP439156
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 1990 IAA RANCHO CORD



SAMPLE INFORMATION

Sample Number	VCP439156	VCP441935	VCP405843	VCP407272
Sample Date	25 Mar 2024	16 Nov 2023	06 Jul 2023	03 Mar 2023
Machine Hours	9726	9224	8707	8187
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

VCES- VOLVO CONSTRUCTION EQUIPMENT
8594 FRUITRIDGE ROAD
SACRAMENTO, CA
US 95826
Contact: RAY KRANZUSCH
ray.kranzusch@vcesvolvo.com
T:
F:



OIL CONDITION

Visc @ 100°C	cSt	13.1	13.2	13.1	13.4
Base Number (BN)	mg KOH/g	10.1	10.1	10.0	10.8
Oxidation (PA)	%	86	84	90	85

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 %	%	0.3	0.3	0.4	0.4
Nitration (PA)	%	68	62	65	68
Sulfation (PA)	%	62	62	64	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	6	6
Sodium	ppm	3	3	2	2
Potassium	ppm	1	<1	1	1



WEAR METALS

Iron	ppm	7	3	8	9
Copper	ppm	2	0	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	3	2	6	7
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	42	37	41	41
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1892	1583	1776	1705
Magnesium	ppm	526	490	546	490
Zinc	ppm	1204	1086	1235	1219
Phosphorus	ppm	1015	910	1014	1016
Barium	ppm	0	0	0	0
Boron	ppm	32	26	36	31

Depot: VOLVO4485
Unique No: 10966854
Signed: Wes Davis
Report Date: 09 Apr 2024

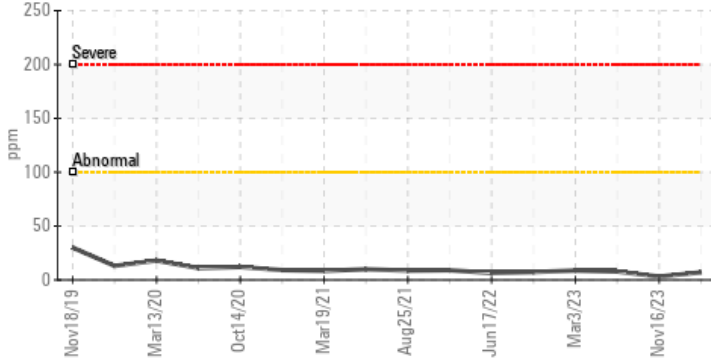


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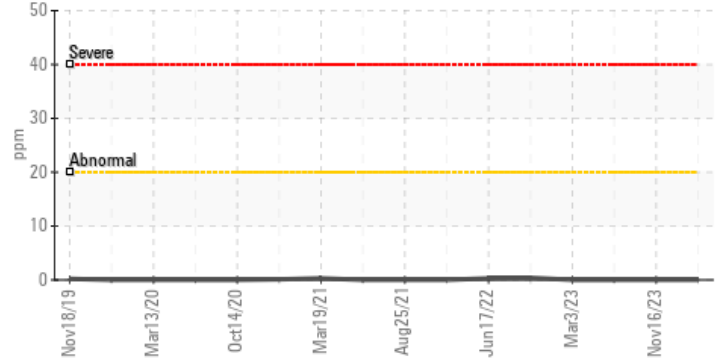


GRAPHS

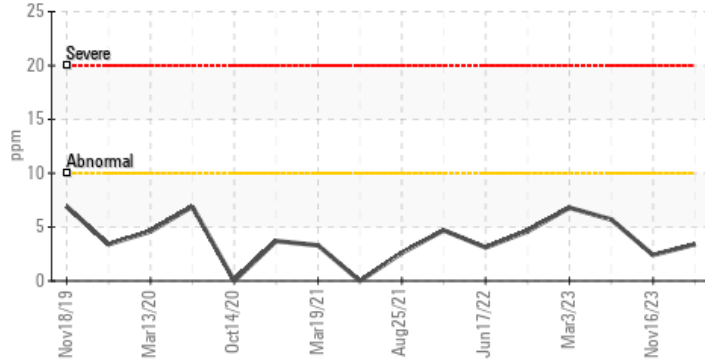
Iron (ppm)



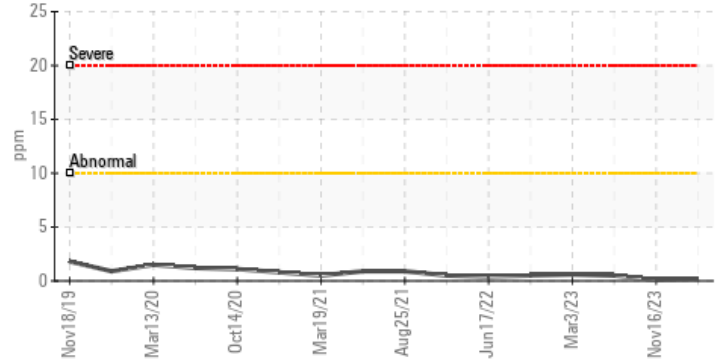
Lead (ppm)



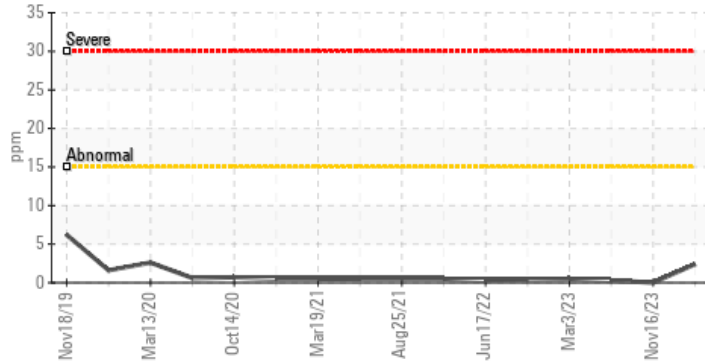
Aluminum (ppm)



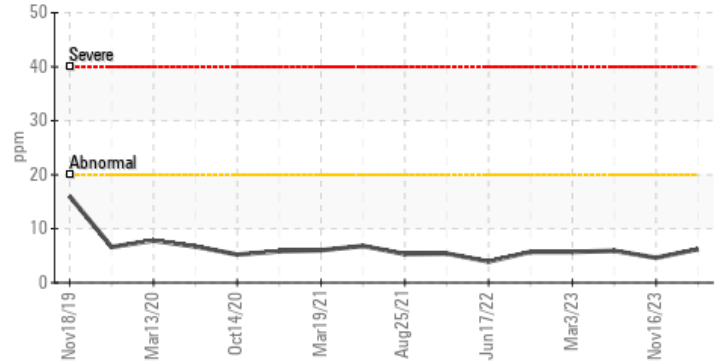
Chromium (ppm)



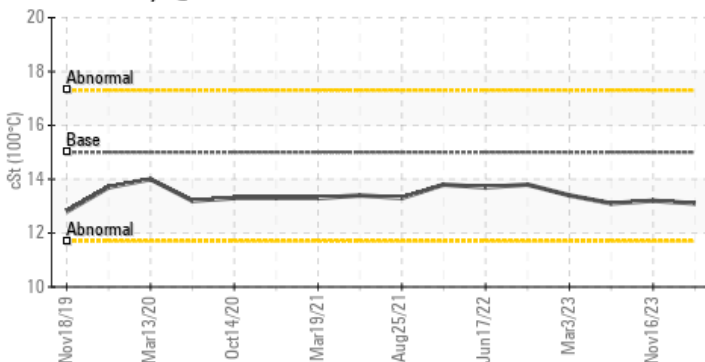
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

