



CONSTRUCTION EQUIPMENT

728466 VOLVO L110H 631377 - DIESEL ENGINE



Sample No: VCP454891
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 728466



SAMPLE INFORMATION

Sample Number	VCP454891	VCP455085	VCP412217	VCP425726
Sample Date	04 Jun 2024	06 Mar 2024	24 Aug 2023	08 May 2023
Machine Hours	9020	8503	7531	7017
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

BLUE GOOSE GROWERS
 16059 W ORANGE AVE
 FT PIERCE, FL
 US 34945
 Contact: SERVICE MANAGER

OIL CONDITION

Visc @ 100°C	cSt	13.4	13.4	13.1	12.7
Base Number (BN)	mg KOH/g	10.1	9.0	10.4	10.3
Oxidation (PA)	%	81	82	82	77

T: (772)461-3020
 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 suitable for further service.

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.6	0.3	0.3
Nitration (PA)	%	63	80	64	61
Sulfation (PA)	%	61	59	61	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	4	6
Sodium	ppm	1	<1	2	2
Potassium	ppm	1	1	<1	1

WEAR METALS

Iron	ppm	10	18	10	11
Copper	ppm	<1	2	<1	0
Lead	ppm	<1	<1	<1	0
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	5	9	6	10
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	44	56	44	51
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1668	1693	1752	1699
Magnesium	ppm	536	600	566	711
Zinc	ppm	1168	1234	1154	1385
Phosphorus	ppm	1034	1110	969	1071
Barium	ppm	0	0	2	0
Boron	ppm	31	24	32	26

Depot: BLUFOR
Unique No: 11075827
Signed: Don Baldrige
Report Date: 14 Jun 2024

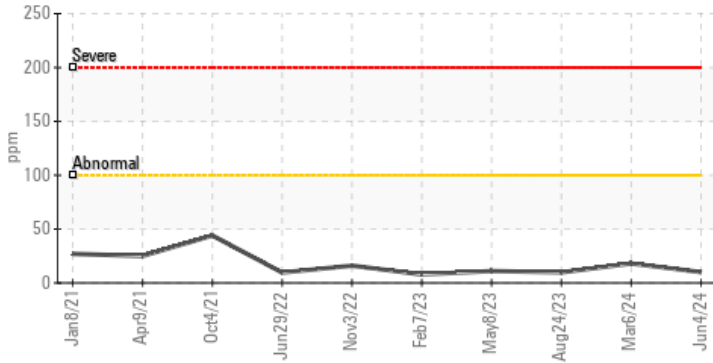


CONSTRUCTION EQUIPMENT

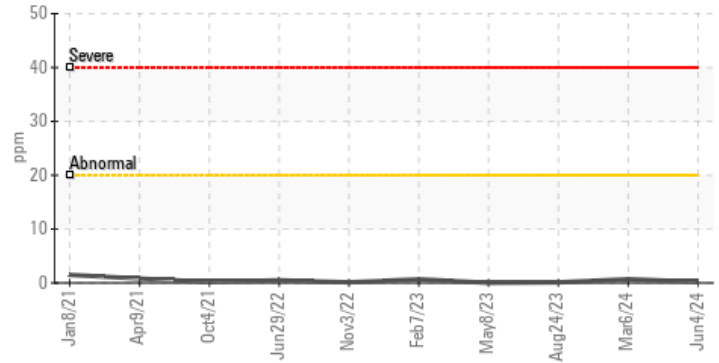


GRAPHS

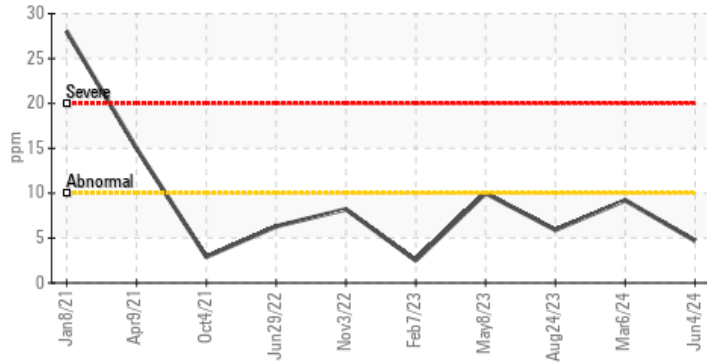
Iron (ppm)



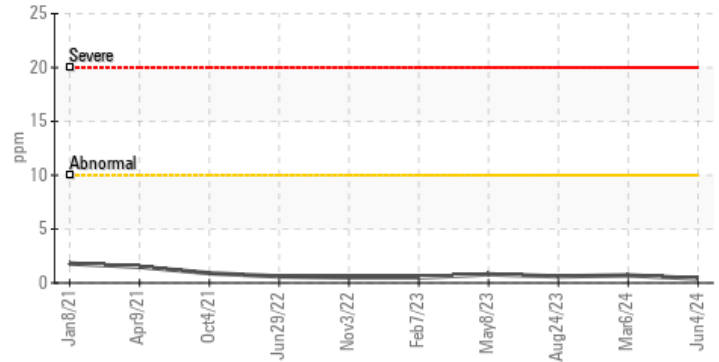
Lead (ppm)



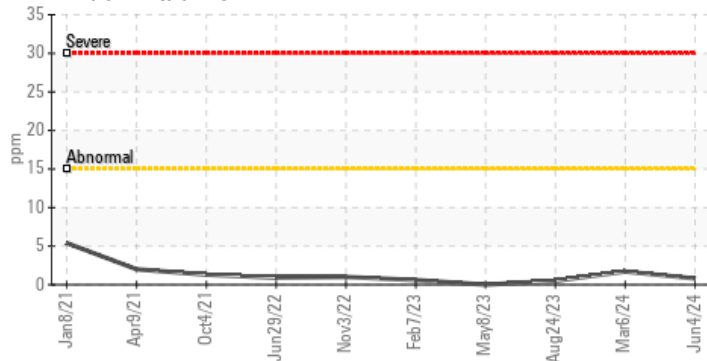
Aluminum (ppm)



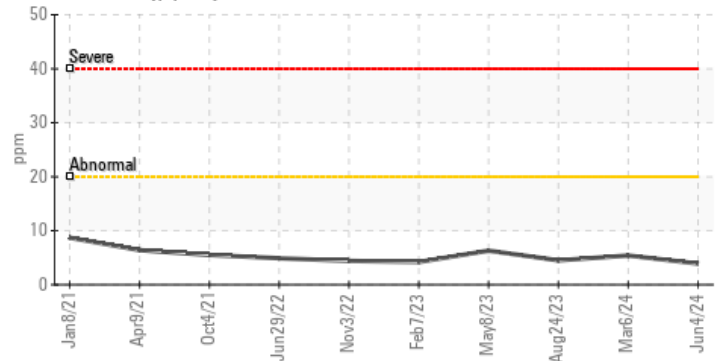
Chromium (ppm)



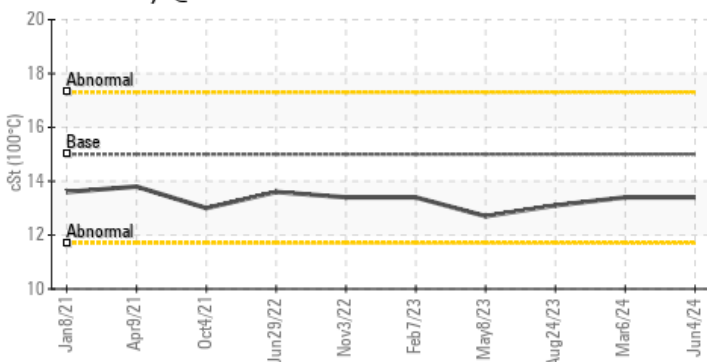
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

