



CONSTRUCTION EQUIPMENT

VOLVO A40G 352449 - DIESEL ENGINE



Sample No: VCP455455
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP455455	VCP376050	VCP412015	VCP421346
Sample Date	02 May 2024	25 Oct 2023	16 Aug 2023	21 Jul 2023
Machine Hours	8038	7451	7072	6888
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT COMPANY
 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905
 Contact: TODD LARK
 tlark@altaequipfl.com
 T:
 F: (239)481-3302



OIL CONDITION

Visc @ 100°C	cSt	13.0	12.4	12.5	16.6
Base Number (BN)	mg KOH/g	9.2	9.4	10.4	8.8
Oxidation (PA)	%	62	76	76	61



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.1	0.2
Nitration (PA)	%	55	53	51	73
Sulfation (PA)	%	53	58	59	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	4	4
Sodium	ppm	<1	2	2	2
Potassium	ppm	2	0	0	<1



WEAR METALS

Iron	ppm	5	1	3	7
Copper	ppm	1	0	<1	2
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	2	1	<1	1
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	54	50	50	54
Nickel	ppm	<1	0	<1	2
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	1086	1411	1727	1635
Magnesium	ppm	836	491	557	756
Zinc	ppm	1180	979	1105	1130
Phosphorus	ppm	1033	925	923	937
Barium	ppm	0	4	0	0
Boron	ppm	10	51	59	49

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.

Depot: VOLVO0090
Unique No: 11015851
Signed: Don Baldrige
Report Date: 08 May 2024

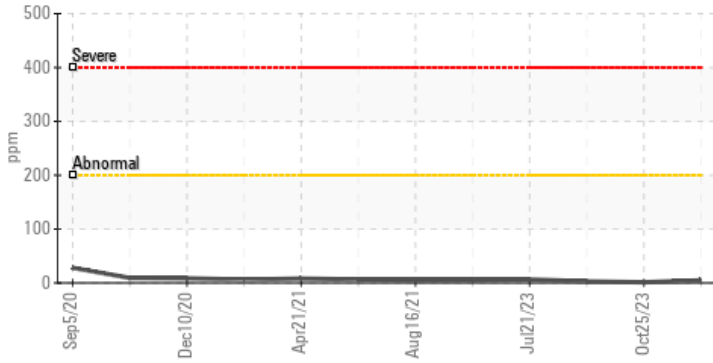


CONSTRUCTION EQUIPMENT

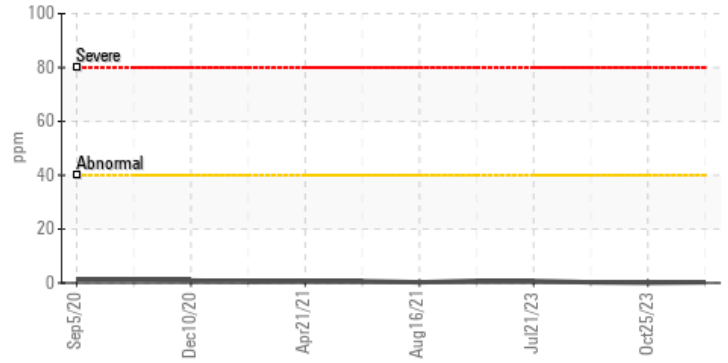


GRAPHS

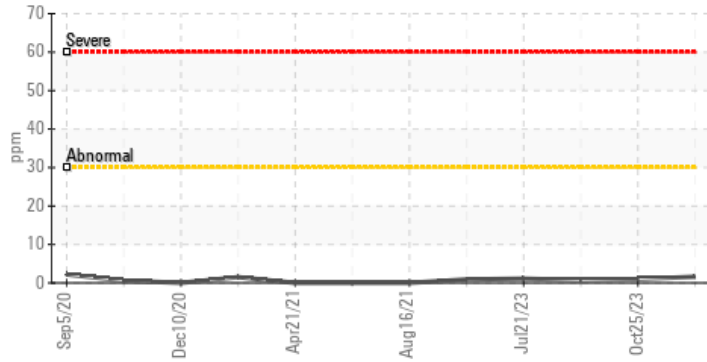
Iron (ppm)



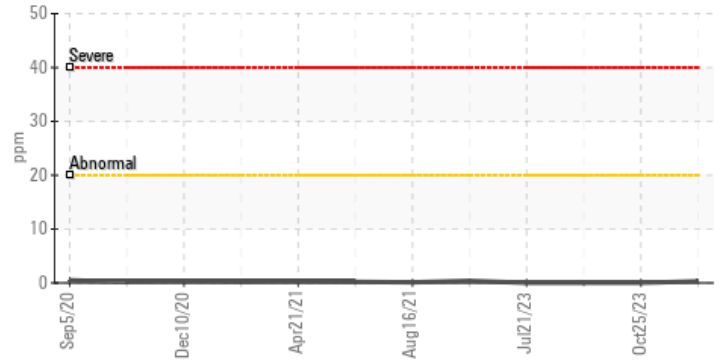
Lead (ppm)



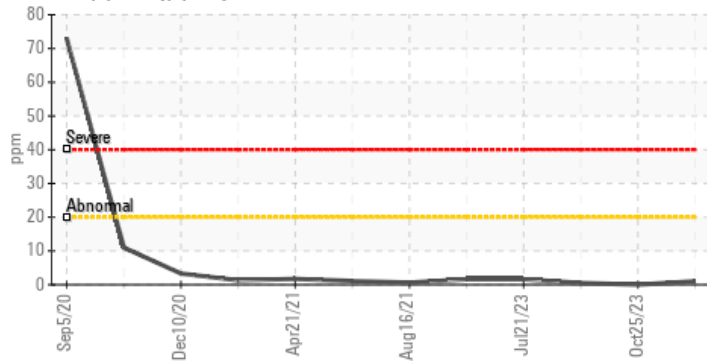
Aluminum (ppm)



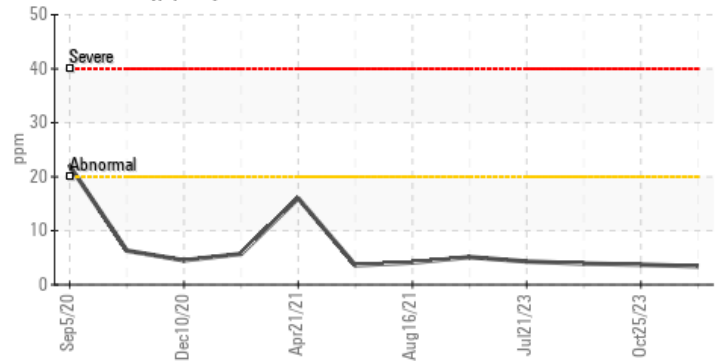
Chromium (ppm)



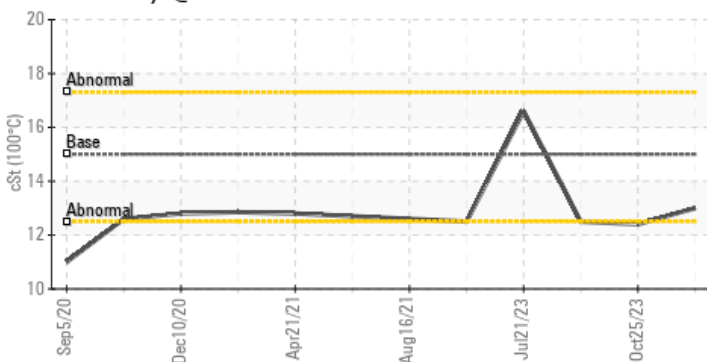
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

