



CONSTRUCTION EQUIPMENT

SPM702852 2284 VOLVO L70G 2284 - DIESEL ENGINE



Sample No: VCP454791
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM702852



SAMPLE INFORMATION

Sample Number	VCP454791	VCP344804	VCP270855	VCP261053
Sample Date	01 May 2024	09 Oct 2021	27 Feb 2020	19 Nov 2019
Machine Hours	19728	17044	16041	11547
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

U-PULL-AND-PAY LLC - WEST PALM BEACH
 551 BENOIST FARMS ROAD
 WEST PALM BEACH, FL
 US 33411
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OIL CONDITION

Visc @ 100°C	cSt	13.2	12.8	13.1	12.5
Base Number (BN)	mg KOH/g	9.4	---	---	---
Oxidation (PA)	%	62	77	65	78

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 %	%	0.4	0.2	0.2	0.2
Nitration (PA)	%	62	51	55	52
Sulfation (PA)	%	53	61	56	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	5	6
Sodium	ppm	1	2	5	6
Potassium	ppm	3	0	0	0



WEAR METALS

Iron	ppm	29	12	7	8
Copper	ppm	<1	<1	<1	<1
Lead	ppm	2	<1	0	4
Tin	ppm	<1	<1	0	0
Aluminum	ppm	11	11	4	6
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	59	49	21	38
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	<1	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1055	1642	1485	1542
Magnesium	ppm	950	509	633	475
Zinc	ppm	1277	1113	873	786
Phosphorus	ppm	1063	910	763	656
Barium	ppm	0	0	0	<1
Boron	ppm	2	47	52	33

Depot: UPUWES
Unique No: 11016899
Signed: Don Baldrige
Report Date: 08 May 2024

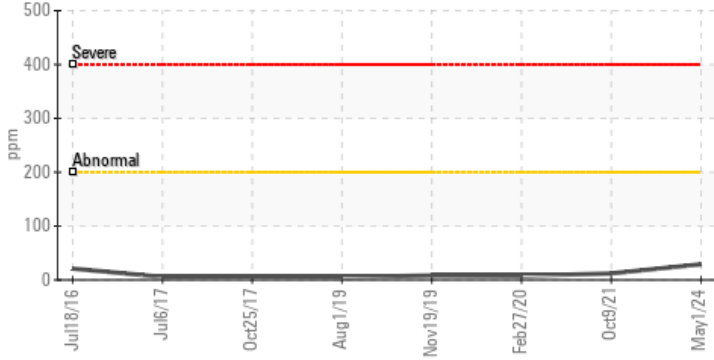


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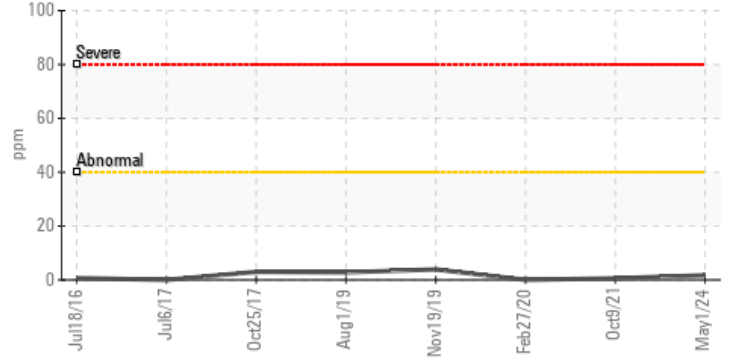


GRAPHS

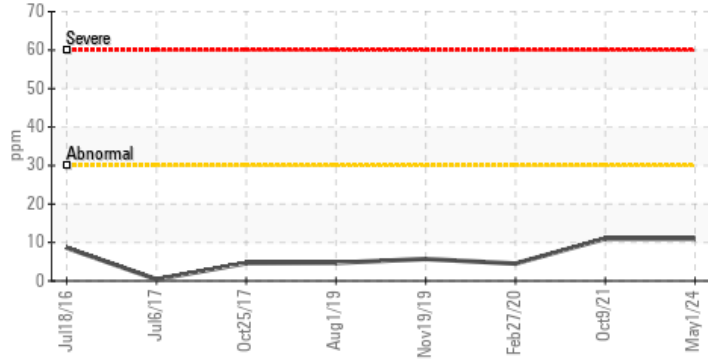
Iron (ppm)



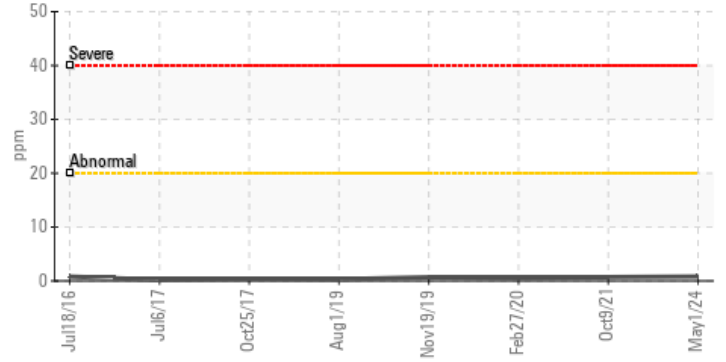
Lead (ppm)



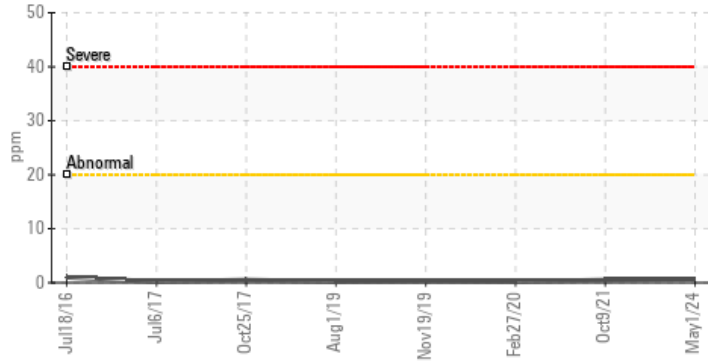
Aluminum (ppm)



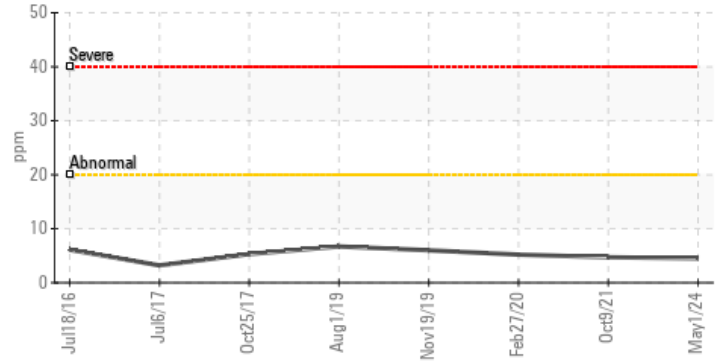
Chromium (ppm)



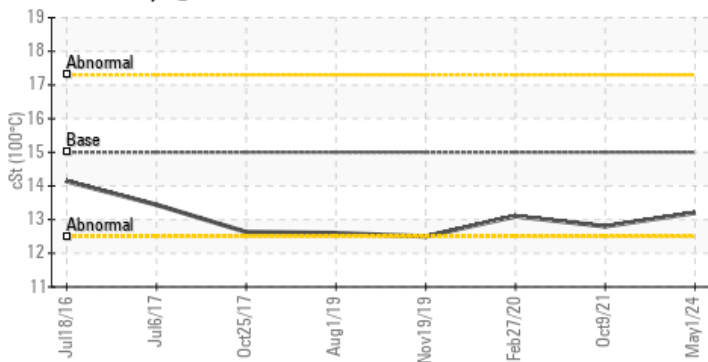
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

