



CONSTRUCTION EQUIPMENT

UPAP-ORLANDO 579902 VOLVO L90G 617406 - DIESEL ENGINE



Sample No: VCP417706
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 579902



SAMPLE INFORMATION

Sample Number	VCP417706	DJJ0005262	VCP385458	VCP356913
Sample Date	11 Jul 2023	02 Feb 2023	28 Dec 2022	05 Jul 2022
Machine Hours	14237	13814	13731	13038
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

U-PULL-AND-PAY LLC - ORLANDO
 1157 JETSTREAM DRIVE
 ORLANDO, FL
 US 32824
 Contact: NILDA RIOS
 nilda.rios@upullandpay.com
 T: (407)473-3798
 F: (407)856-4029



OIL CONDITION

Visc @ 100°C	cSt	█ 12.8	█ 13.2	█ 13.7	█ 13.1
Base Number (BN)	mg KOH/g	█ 10.4	█ 10.4	█ 10.3	█ 11.3
Oxidation (PA)	%	76	73	56	81

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

Soot %	%	█ 0.1	█ 0.1	█ 0.1	█ 0.2
Nitration (PA)	%	48	43	47	51
Sulfation (PA)	%	57	58	49	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	█ 5	█ 5	█ 3	█ 4
Sodium	ppm	█ 2	█ 2	█ <1	█ 2
Potassium	ppm	█ 2	█ 0	█ 0	█ 0



WEAR METALS

Iron	ppm	█ 4	█ 3	█ 3	█ 4
Copper	ppm	█ 1	█ 0	█ <1	█ <1
Lead	ppm	█ <1	█ <1	█ <1	█ <1
Tin	ppm	█ <1	█ <1	█ <1	█ <1
Aluminum	ppm	█ 4	█ 2	█ 5	█ 2
Chromium	ppm	█ <1	█ <1	█ <1	█ <1
Molybdenum	ppm	█ 44	█ 42	█ 56	█ 40
Nickel	ppm	█ 0	█ <1	█ 0	█ 0
Titanium	ppm	0	0	0	0
Silver	ppm	█ 0	█ 0	█ 0	<1
Manganese	ppm	█ <1	█ <1	█ <1	█ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	█ 1688	█ 1597	█ 1070	█ 1646
Magnesium	ppm	█ 611	█ 538	█ 888	█ 514
Zinc	ppm	█ 1231	█ 1096	█ 1180	█ 1072
Phosphorus	ppm	█ 1009	█ 875	█ 978	█ 877
Barium	ppm	█ 0	█ 0	█ 0	█ 0
Boron	ppm	█ 40	█ 59	█ 5	█ 53

Depot: UPUORL
Unique No: 10559753
Signed: Wes Davis
Report Date: 16 Jul 2023

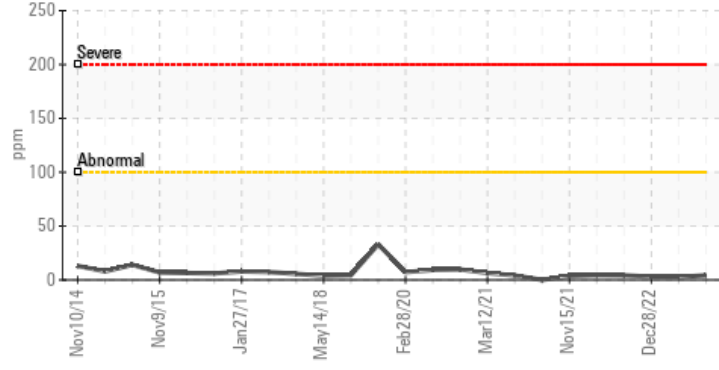


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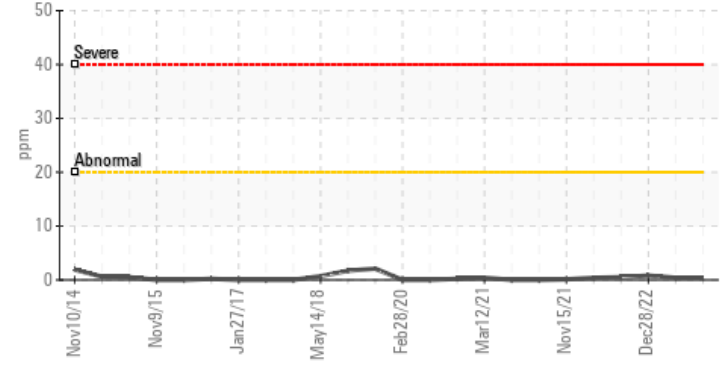


GRAPHS

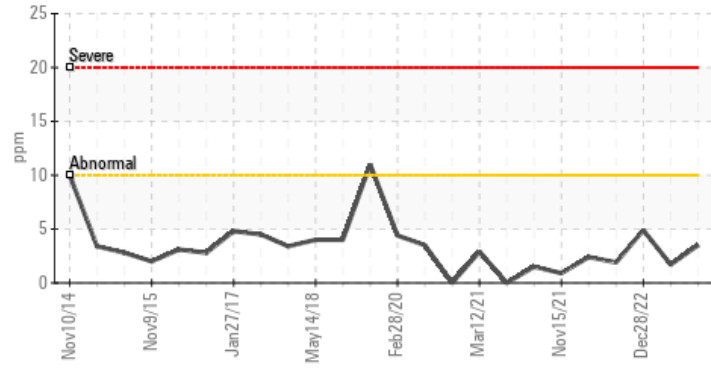
Iron (ppm)



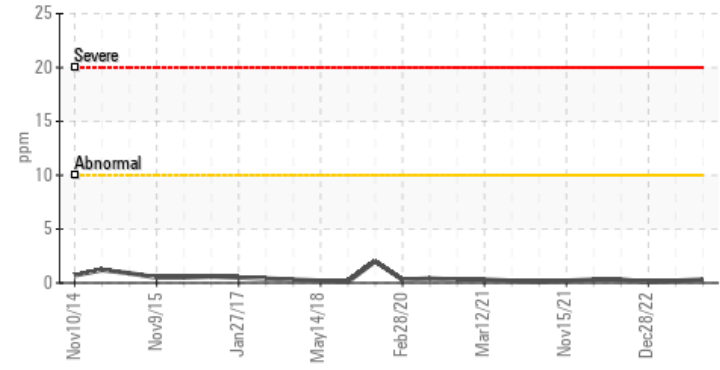
Lead (ppm)



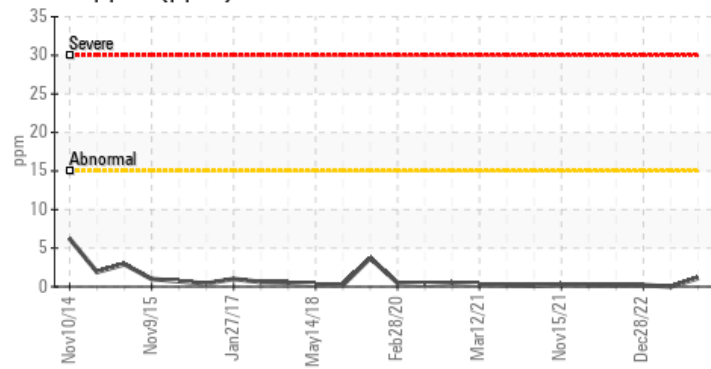
Aluminum (ppm)



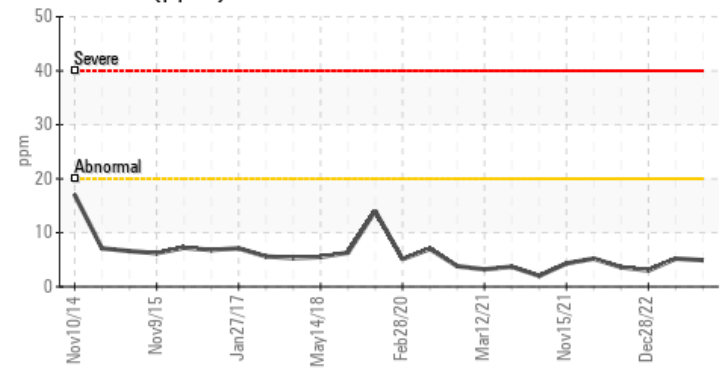
Chromium (ppm)



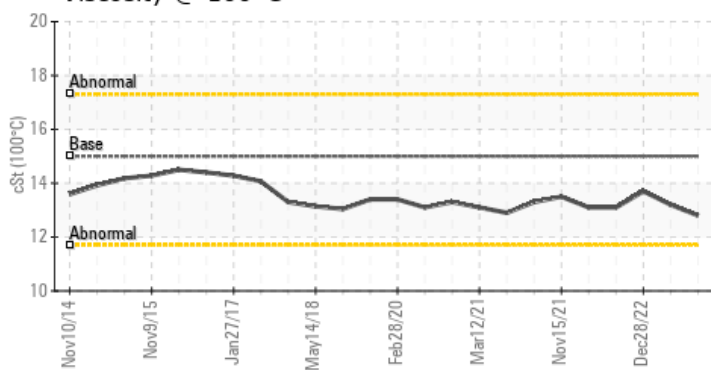
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

