



CONSTRUCTION EQUIPMENT

399094 VOLVO L120H 632528 - DIESEL ENGINE



Sample No: VCP434079
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 399094



SAMPLE INFORMATION

Sample Number	VCP434079	VCP427209	VCP427059	VCP406259
Sample Date	26 Oct 2023	03 Aug 2023	20 Jun 2023	17 Apr 2023
Machine Hours	11506	11101	10903	10437
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

FORESTRY RESOURCES

4353 MICHIGAN LINK
 FORT MYERS, FL
 US 33916
 Contact: COREY MUELLER



OIL CONDITION

Visc @ 100°C	cSt	13.2	12.8	13.3	13.6
Base Number (BN)	mg KOH/g	9.4	10.6	9.7	8.5
Oxidation (PA)	%	69	80	82	84

T: (239)872-1856
 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

Soot %	%	0.2	0.2	0.3	0.4
Nitration (PA)	%	56	53	59	69
Sulfation (PA)	%	56	60	61	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	5	5
Sodium	ppm	2	2	2	3
Potassium	ppm	1	2	2	1



WEAR METALS

Iron	ppm	6	6	10	19
Copper	ppm	2	1	2	5
Lead	ppm	0	<1	<1	0
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	3	3	2	4
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	52	44	40	44
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1236	1896	1859	1620
Magnesium	ppm	717	538	506	548
Zinc	ppm	1116	1213	1274	1084
Phosphorus	ppm	1028	1018	1005	943
Barium	ppm	4	0	0	0
Boron	ppm	16	49	33	25

Depot: FORFORTFL
Unique No: 10715328
Signed: Don Baldrige
Report Date: 31 Oct 2023

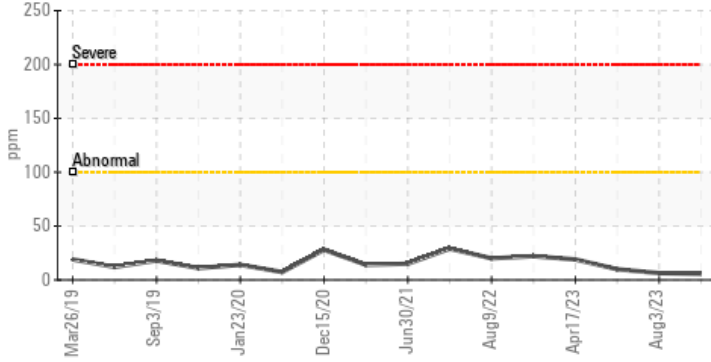


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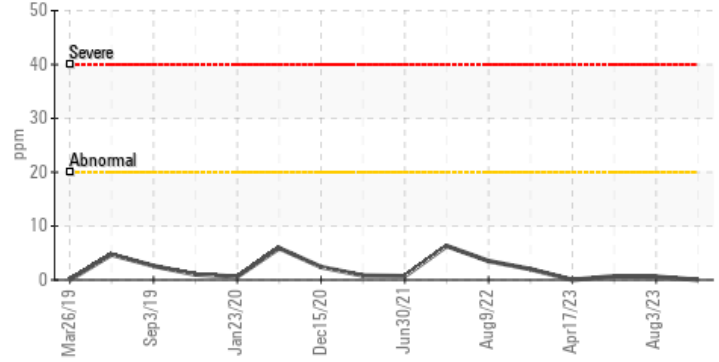


GRAPHS

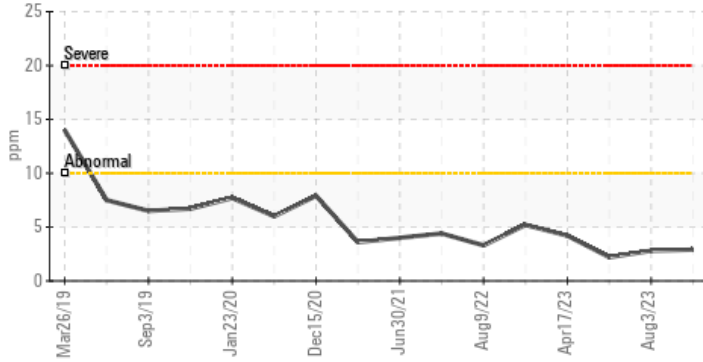
Iron (ppm)



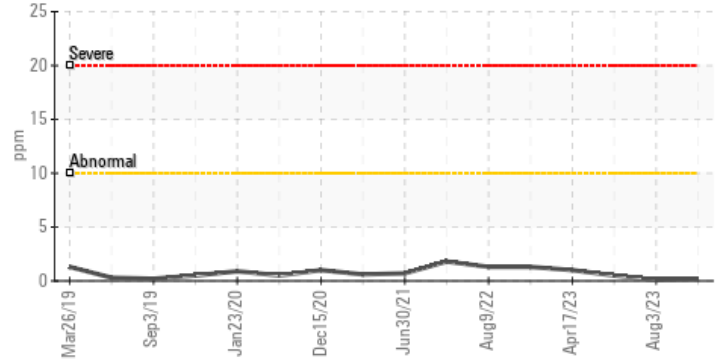
Lead (ppm)



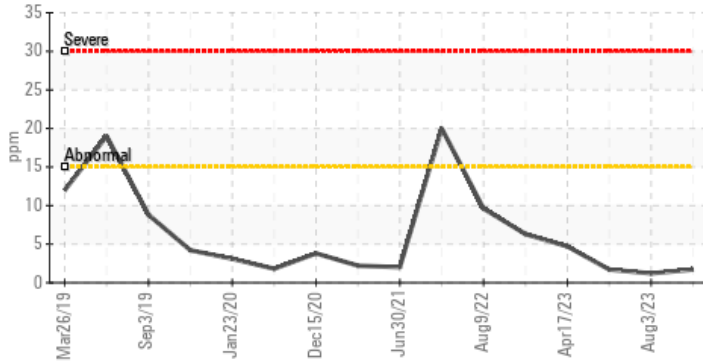
Aluminum (ppm)



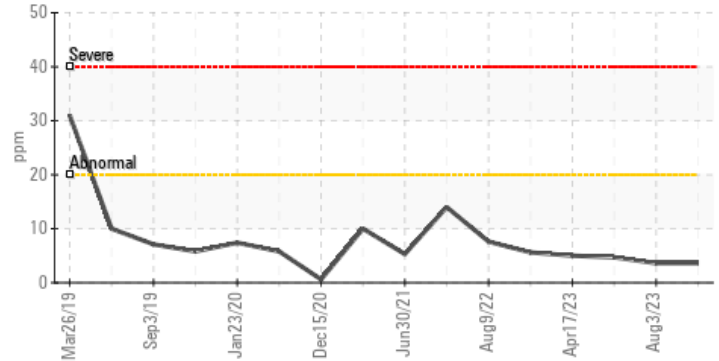
Chromium (ppm)



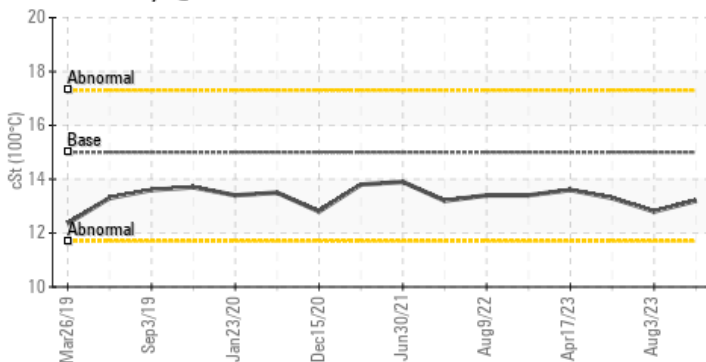
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

