



CONSTRUCTION EQUIPMENT

VOLVO L120H 632529 - DIESEL ENGINE



Sample No: VCP438885
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP438885	VCP446541	VCP436716	VCP421353
Sample Date	18 Jun 2024	14 Feb 2024	07 Dec 2023	07 Sep 2023
Machine Hours	18264	17629	17016	16483
Oil Hours	18264	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	13.6	13.8	13.6	14.2
Base Number (BN)	mg KOH/g	9.3	9.3	9.7	9.3
Oxidation (PA)	%	88	80	83	86

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.3	0.3	0.5
Nitration (PA)	%	84	77	72	91
Sulfation (PA)	%	62	60	61	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	6	7
Sodium	ppm	2	2	4	4
Potassium	ppm	3	4	3	3



WEAR METALS

Iron	ppm	10	14	16	24
Copper	ppm	1	4	2	3
Lead	ppm	0	0	<1	3
Tin	ppm	<1	<1	0	1
Aluminum	ppm	5	6	6	7
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	45	51	53	71
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1755	1500	1695	1990
Magnesium	ppm	543	614	542	642
Zinc	ppm	1301	1198	1184	1374
Phosphorus	ppm	970	1016	974	1073
Barium	ppm	0	10	0	0
Boron	ppm	23	16	29	25

Depot: FORFORTFL
Unique No: 11098971
Signed: Wes Davis
Report Date: 27 Jun 2024

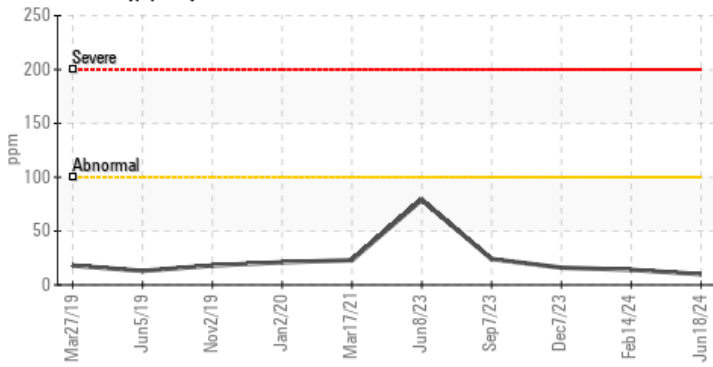


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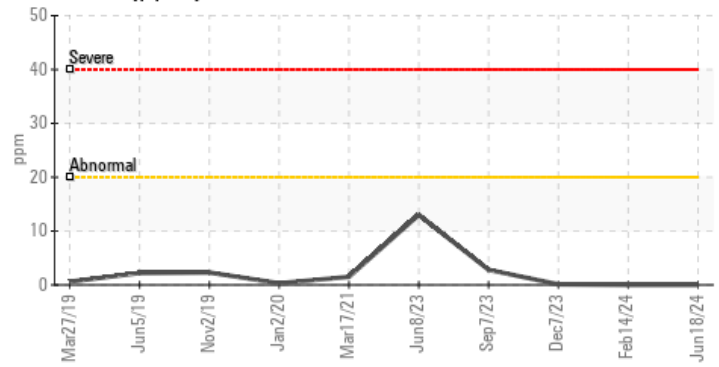


GRAPHS

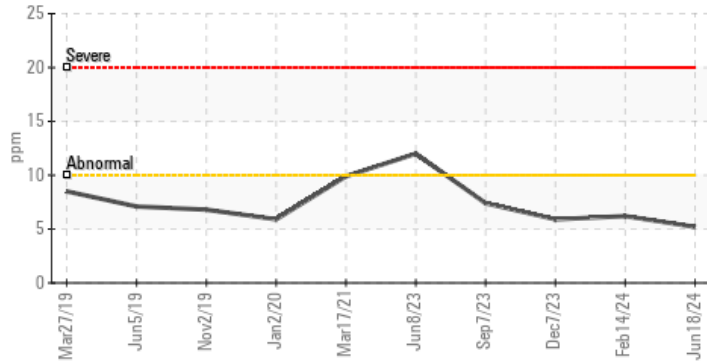
Iron (ppm)



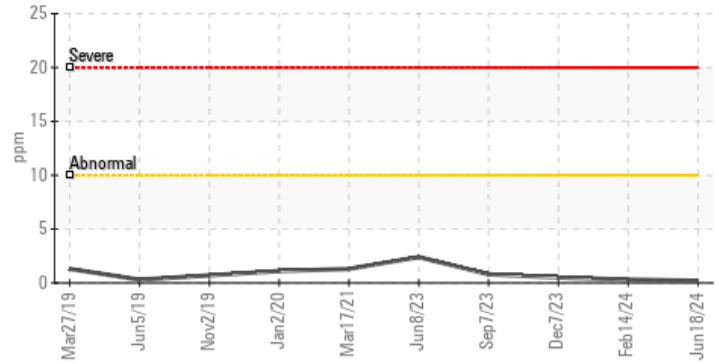
Lead (ppm)



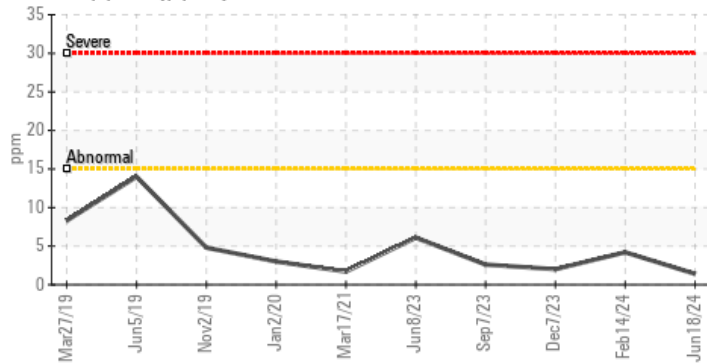
Aluminum (ppm)



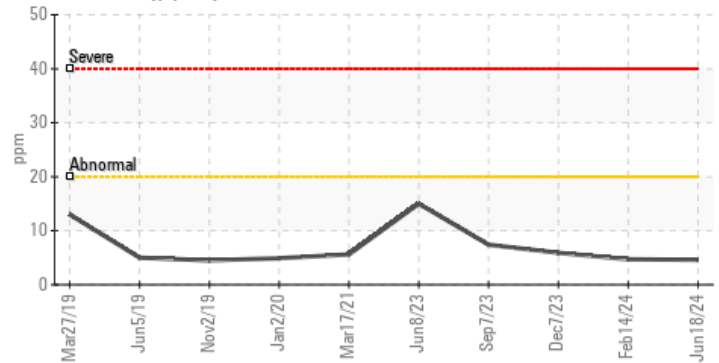
Chromium (ppm)



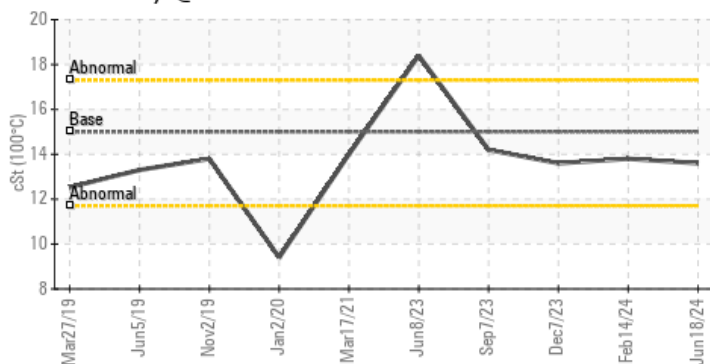
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

