



CONSTRUCTION EQUIPMENT

A12361 VOLVO L60H 622780 - DIESEL ENGINE



Sample No: VCP439369
Oil Type: MOBIL 15W40
Job No: A12361



SAMPLE INFORMATION

Sample Number	VCP439369	VCP430648	VCP431248	VCP421709
Sample Date	27 Mar 2024	17 Jan 2024	13 Nov 2023	09 Aug 2023
Machine Hours	6530	5935	5415	4560
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

COVANTA METAL MARKETING LLC
 500 MIDDLE DR
 FAIRLESS HILLS, PA
 US 19030
 Contact: J.P.

OIL CONDITION

Visc @ 100°C	cSt	13.6	13.5	13.3	13.4
Base Number (BN)	mg KOH/g	6.4	6.6	6.5	6.2
Oxidation (PA)	%	42	41	51	43

T:
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 %	%	0.3	0.3	0.5	0.5
Nitration (PA)	%	59	56	64	63
Sulfation (PA)	%	50	48	53	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	9	8
Sodium	ppm	1	<1	2	0
Potassium	ppm	<1	0	<1	2

WEAR METALS

Iron	ppm	8	8	25	33
Copper	ppm	<1	<1	2	2
Lead	ppm	1	0	1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	3	2	4	8
Chromium	ppm	<1	<1	1	1
Molybdenum	ppm	7	9	30	13
Nickel	ppm	<1	0	0	2
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	2
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	<1	<1

ADDITIVES

Calcium	ppm	2290	2110	1848	2205
Magnesium	ppm	91	146	426	117
Zinc	ppm	979	1078	1202	1087
Phosphorus	ppm	882	921	940	890
Barium	ppm	0	0	0	0
Boron	ppm	5	6	5	3

Depot: COVFAI
Unique No: 10968730
Signed: Wes Davis
Report Date: 11 Apr 2024

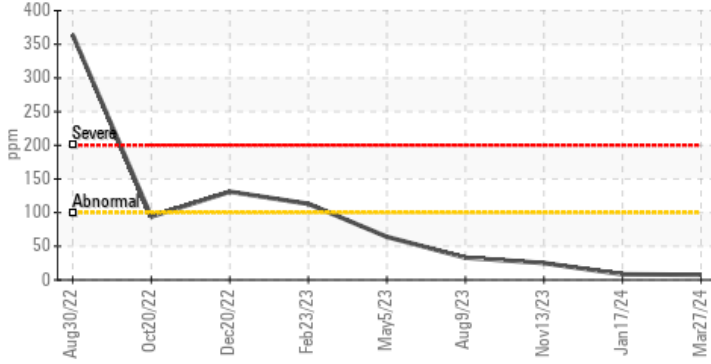


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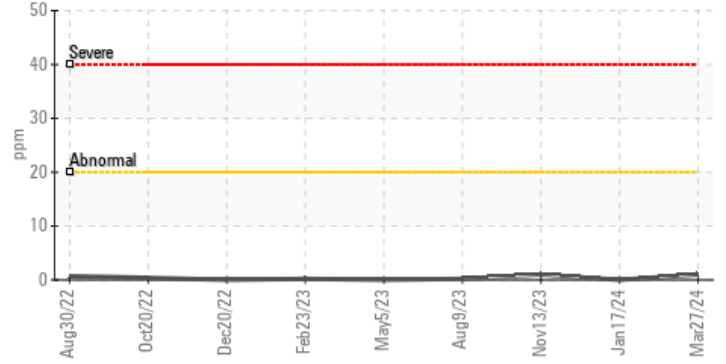


GRAPHS

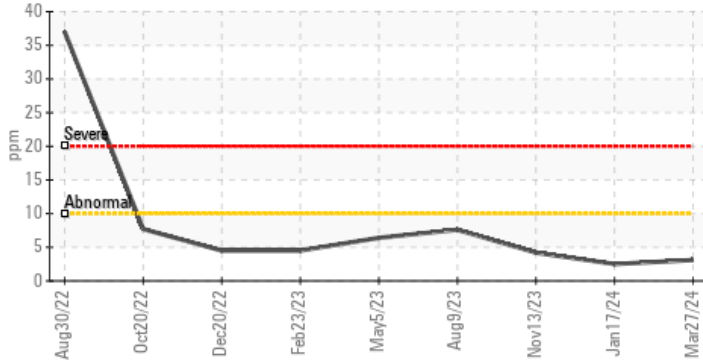
Iron (ppm)



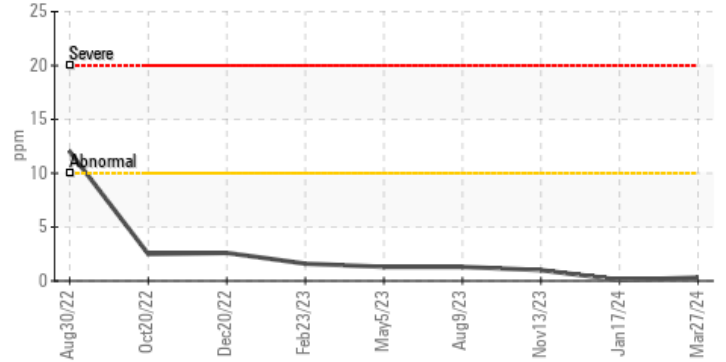
Lead (ppm)



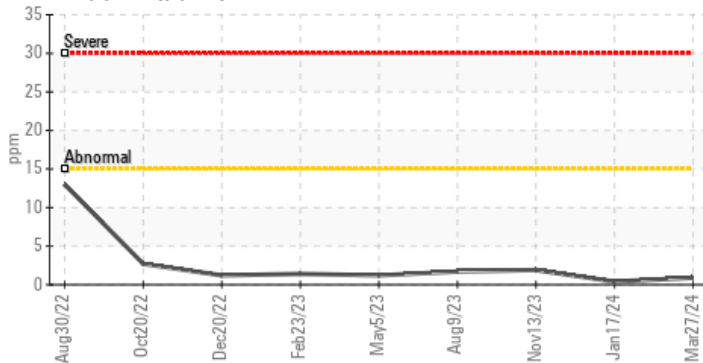
Aluminum (ppm)



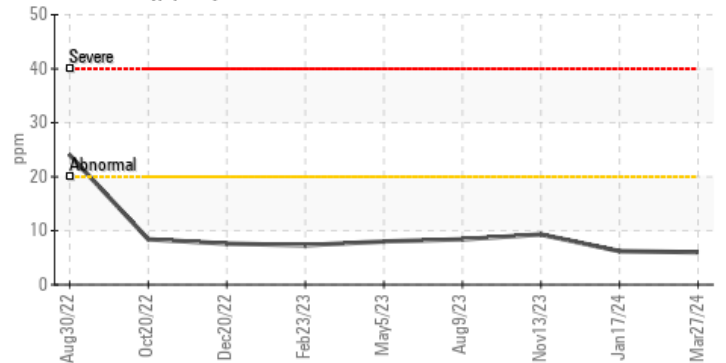
Chromium (ppm)



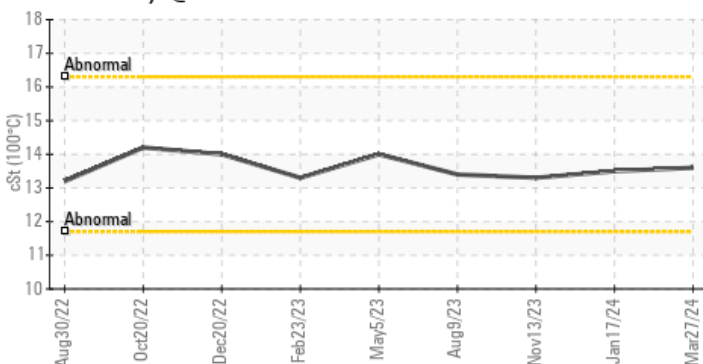
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

