



CONSTRUCTION EQUIPMENT

380669 16-8002 - DIESEL ENGINE



Sample No: VCP380504
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 380669



SAMPLE INFORMATION

Sample Number	VCP380504	VCP394759	VCP394897	VCP352935
Sample Date	06 Oct 2023	04 Aug 2023	21 May 2023	04 Dec 2022
Machine Hours	18004	17470	16959	16500
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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CONCORD, ON
CA L4K 1B6
Contact: Dan Brown
dan.brown@ca.crh.com
T:
F:

OIL CONDITION

Visc @ 40°C	cSt	---	109	---	---
Visc @ 100°C	cSt	12.3	14.9	14.8	15.3
Viscosity Index (VI)	Scale	---	141	---	---
Oxidation (PA)	%	96	102	101	37

CONTAMINATION

Soot %	%	0.6	0.9	0.6	0
Nitration (PA)	%	98	108	102	42
Sulfation (PA)	%	73	78	73	45
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	4	4	4
Sodium	ppm	2	3	2	2
Potassium	ppm	<1	<1	0	0

WEAR METALS

Iron	ppm	13	13	13	13
Copper	ppm	<1	<1	1	<1
Lead	ppm	3	4	5	6
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	1	2	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	53	58	62	60
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1339	1553	1606	1535
Magnesium	ppm	777	829	932	901
Zinc	ppm	1170	1269	1357	1324
Phosphorus	ppm	977	1140	1247	1191
Barium	ppm	<1	0	0	0
Boron	ppm	10	14	12	12

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 condition of the oil is acceptable for the time in service.

Depot: HOLCON
Unique No: 5657664
Signed: Wes Davis
Report Date: 12 Oct 2023

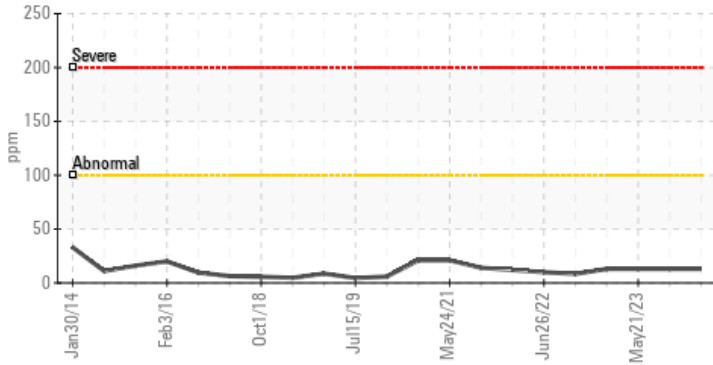


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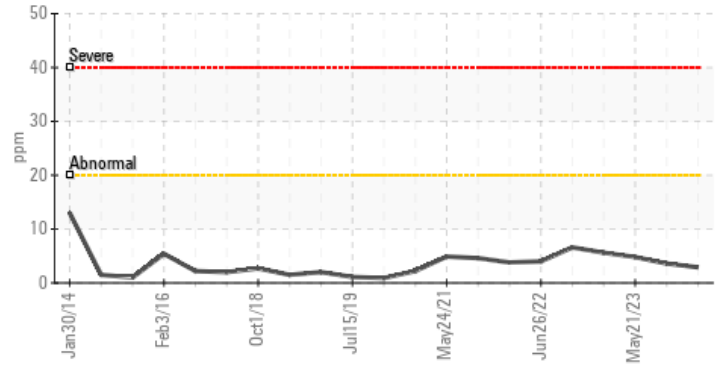


GRAPHS

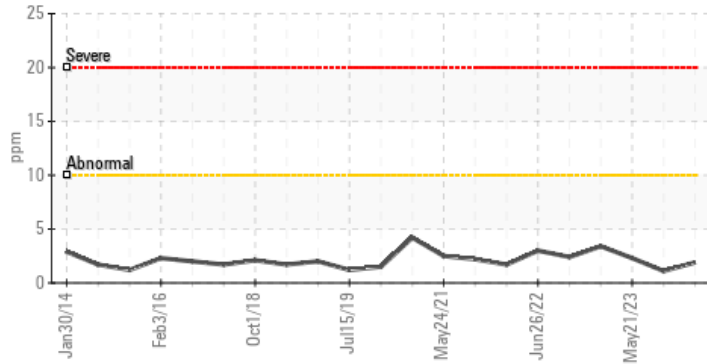
Iron (ppm)



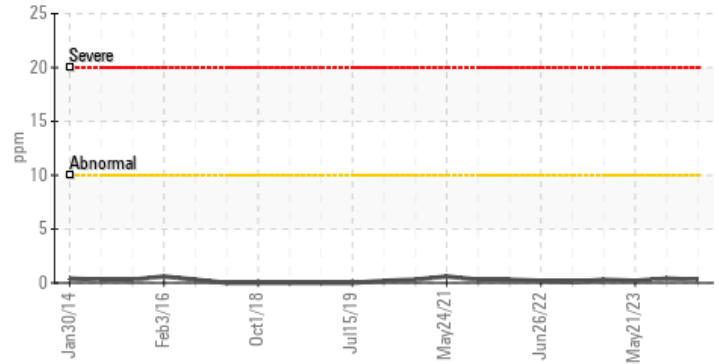
Lead (ppm)



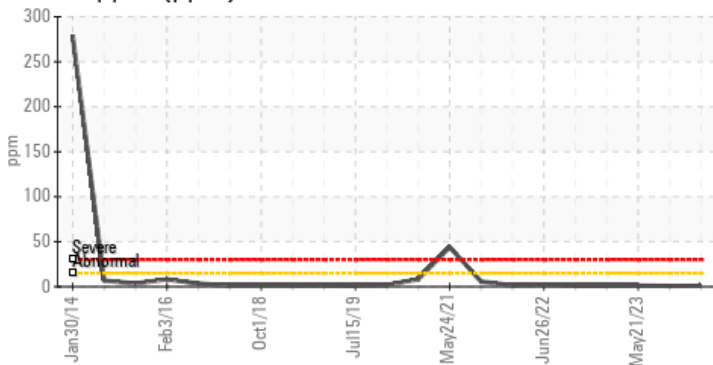
Aluminum (ppm)



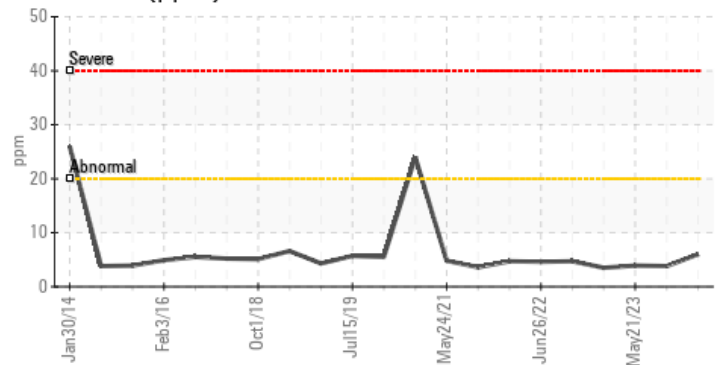
Chromium (ppm)



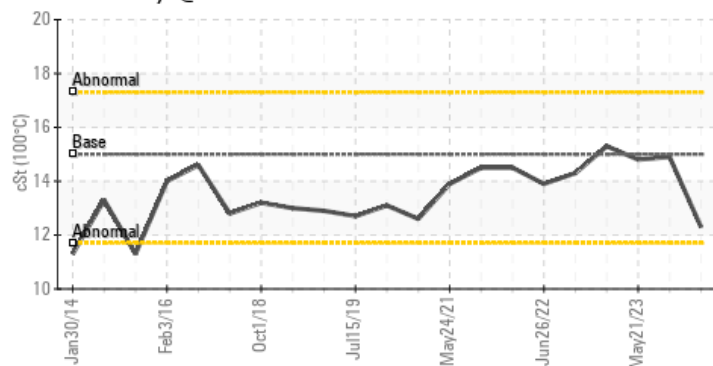
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

