



CONSTRUCTION EQUIPMENT

10142 LKQ CURTIS BAY VOLVO L90H 625992 - DIESEL ENGINE



Sample No: VCP429483
Oil Type: CHEVRON 15W40
Job No: 10142 LKQ CURTIS BAY



SAMPLE INFORMATION

Sample Number	VCP429483	VCP413654	VCP408909	VCP393418
Sample Date	08 Jan 2024	18 Oct 2023	27 Jun 2023	12 Jan 2023
Machine Hours	3093	2627	2281	1805
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.5	13.4	13.4
Base Number (BN)	mg KOH/g	7.5	7.9	8.3	8.4
Oxidation (PA)	%	60	60	63	64

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0.3	0.3
Nitration (PA)	%	51	49	61	58
Sulfation (PA)	%	58	58	61	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	6	6
Sodium	ppm	<1	2	0	<1
Potassium	ppm	2	0	2	1

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.

WEAR METALS

Iron	ppm	20	13	19	29
Copper	ppm	<1	<1	1	2
Lead	ppm	<1	0	0	1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	4	4	5	5
Chromium	ppm	0	<1	<1	1
Molybdenum	ppm	77	85	98	94
Nickel	ppm	0	0	<1	0
Titanium	ppm	1	3	1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1362	1386	1451	1552
Magnesium	ppm	385	414	459	541
Zinc	ppm	1251	1281	1123	1122
Phosphorus	ppm	987	978	952	914
Barium	ppm	0	0	0	0
Boron	ppm	378	409	396	321

Depot: VOLV00150
Unique No: 10823580
Signed: Wes Davis
Report Date: 11 Jan 2024

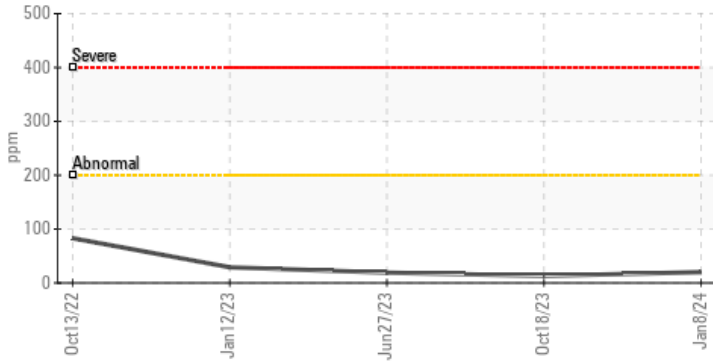


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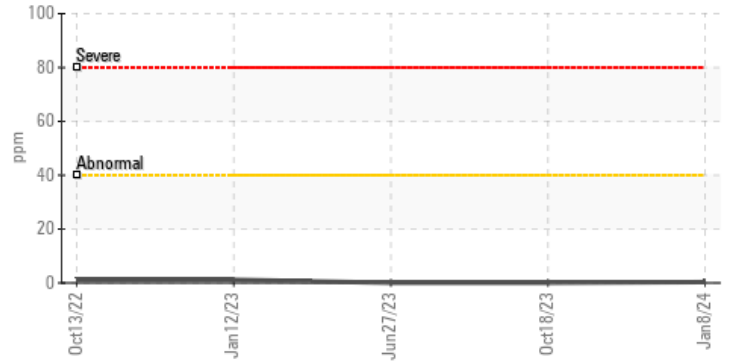


GRAPHS

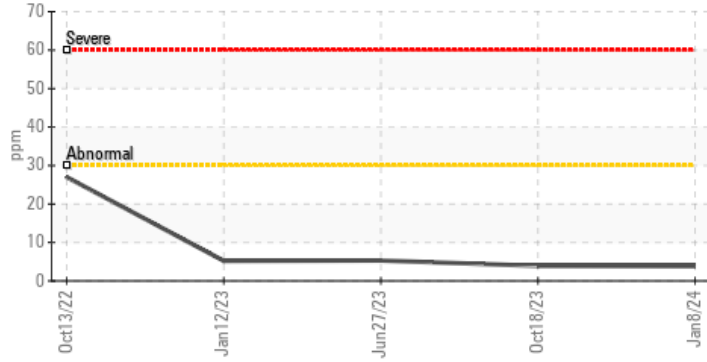
Iron (ppm)



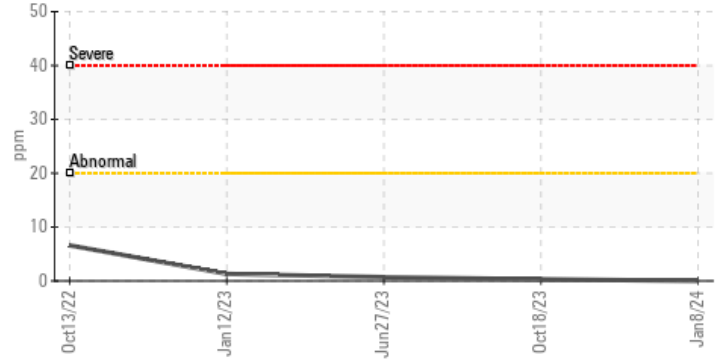
Lead (ppm)



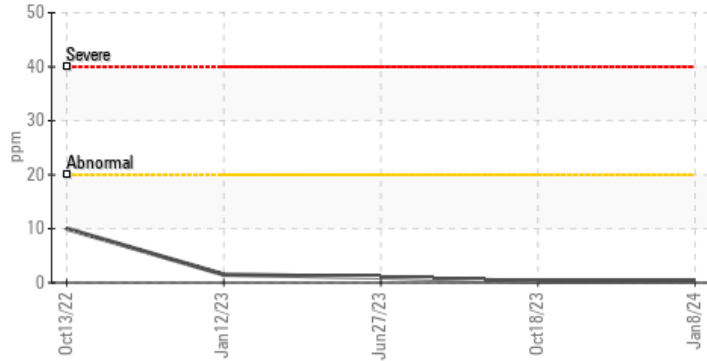
Aluminum (ppm)



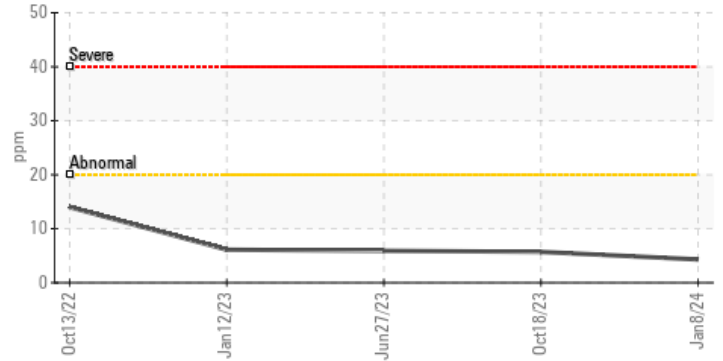
Chromium (ppm)



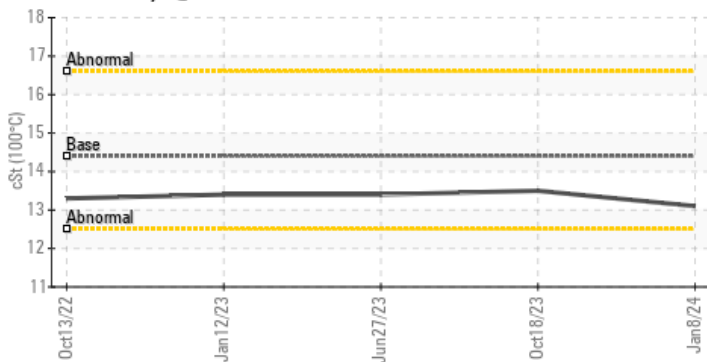
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

