



CONSTRUCTION EQUIPMENT

VOLVO L90H 626081 - DIESEL ENGINE



Sample No: VCP399682
Oil Type: KENDALL SUPER-D XA 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP399682	VCP422417	---	---
Sample Date	08 Feb 2024	15 Apr 2023	---	---
Machine Hours	3546	2242	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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 DAVENPORT, FL
 US 33837
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 david.ortiz@oldcastle.com
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 F: (863)421-1776



OIL CONDITION

Visc @ 100°C	cSt	14.4	13.8	---	---
Base Number (BN)	mg KOH/g	6.9	6.4	---	---
Oxidation (PA)	%	45	63	---	---

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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.3	---	---
Nitration (PA)	%	38	75	---	---
Sulfation (PA)	%	42	52	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	5	8	---	---
Sodium	ppm	2	2	---	---
Potassium	ppm	<1	2	---	---



WEAR METALS

Iron	ppm	49	73	---	---
Copper	ppm	1	2	---	---
Lead	ppm	0	0	---	---
Tin	ppm	1	<1	---	---
Aluminum	ppm	6	8	---	---
Chromium	ppm	1	2	---	---
Molybdenum	ppm	55	39	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	2	47	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	2	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	1179	1777	---	---
Magnesium	ppm	880	598	---	---
Zinc	ppm	1276	1341	---	---
Phosphorus	ppm	1047	1030	---	---
Barium	ppm	0	0	---	---
Boron	ppm	4	45	---	---

Depot: GREDAVFL
Unique No: 10884415
Signed: Don Baldrige
Report Date: 19 Feb 2024

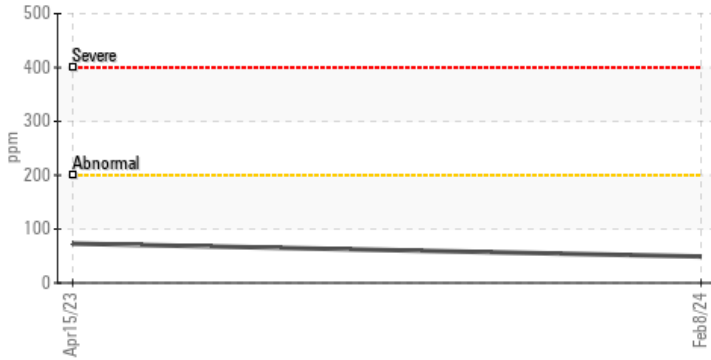


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GRAPHS

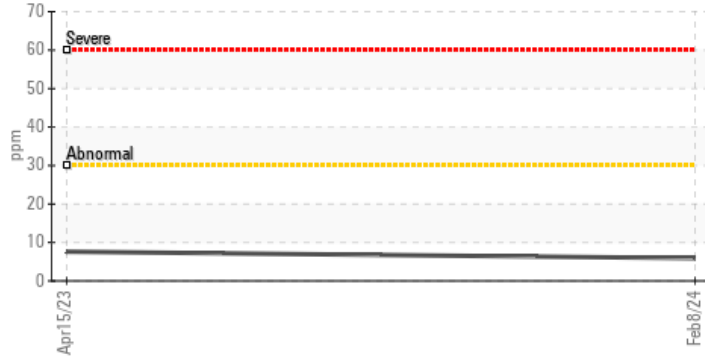
Iron (ppm)



Lead (ppm)



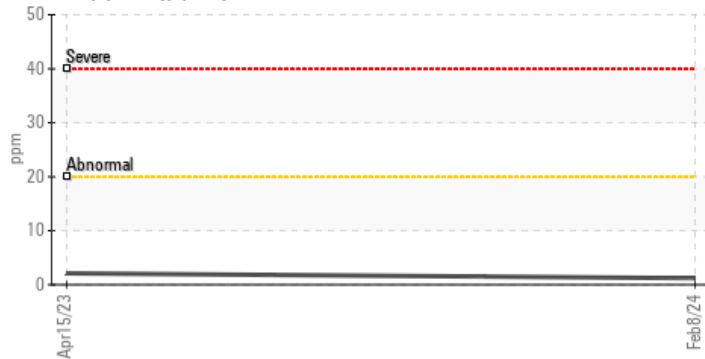
Aluminum (ppm)



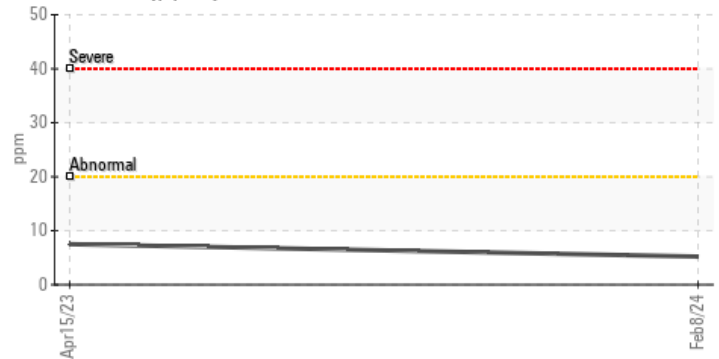
Chromium (ppm)



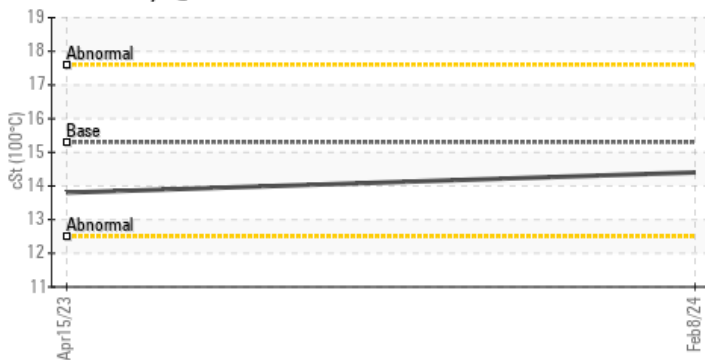
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

