



CONSTRUCTION EQUIPMENT

X59522 KOBELCO SK85CS-7 LF09011280 - DIESEL ENGINE



Sample No: VCP438263
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X59522



SAMPLE INFORMATION

Sample Number	VCP438263	VCP384795	---	---
Sample Date	25 Apr 2024	14 Oct 2022	---	---
Machine Hours	2512	509	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.7	10.3	---	---
Base Number (BN)	mg KOH/g	█ 10.8	█ 8.0	---	---
Oxidation (PA)	%	78	55	---	---

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	---	---
Soot %	%	█ 0.3	█ 0.4	---	---
Nitration (PA)	%	48	70	---	---
Sulfation (PA)	%	60	53	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	█ 1.4	---	---
Silicon	ppm	█ 9	█ 50	---	---
Sodium	ppm	█ 2	█ 14	---	---
Potassium	ppm	█ 0	▲ 205	---	---



WEAR METALS

Iron	ppm	█ 7	█ 30	---	---
Copper	ppm	█ <1	█ 65	---	---
Lead	ppm	█ 0	█ <1	---	---
Tin	ppm	█ 0	█ <1	---	---
Aluminum	ppm	█ 3	█ 4	---	---
Chromium	ppm	█ 0	█ <1	---	---
Molybdenum	ppm	█ 40	█ 175	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	█ 0	█ 2	---	---
Manganese	ppm	█ 0	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	█ 1775	█ 2338	---	---
Magnesium	ppm	█ 518	█ 19	---	---
Zinc	ppm	█ 1100	█ 777	---	---
Phosphorus	ppm	█ 948	█ 640	---	---
Barium	ppm	█ 0	█ 4	---	---
Boron	ppm	█ 52	█ 182	---	---

Depot: SCOSAI
Unique No: 11006060
Signed: Wes Davis
Report Date: 02 May 2024

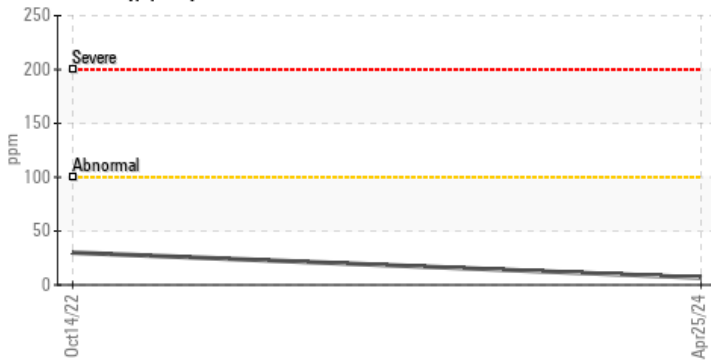


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GRAPHS

Iron (ppm)



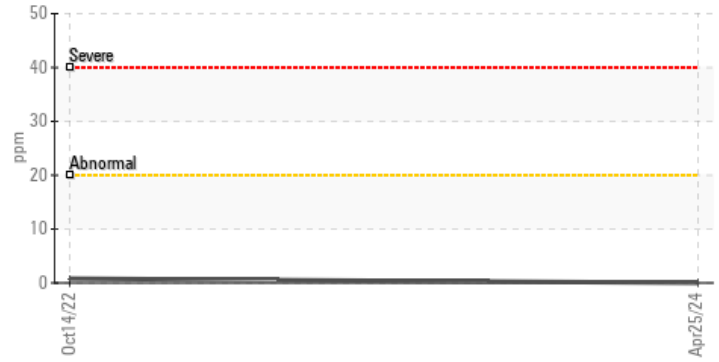
Lead (ppm)



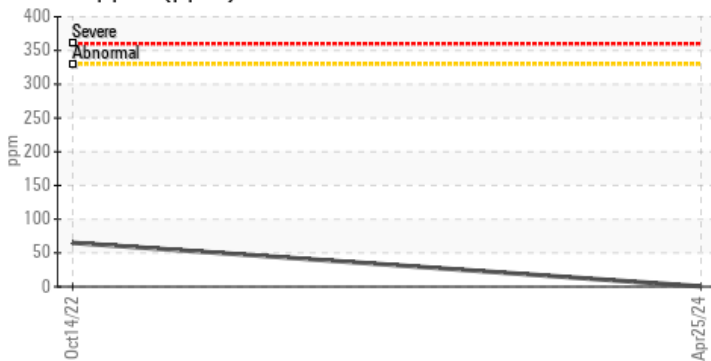
Aluminum (ppm)



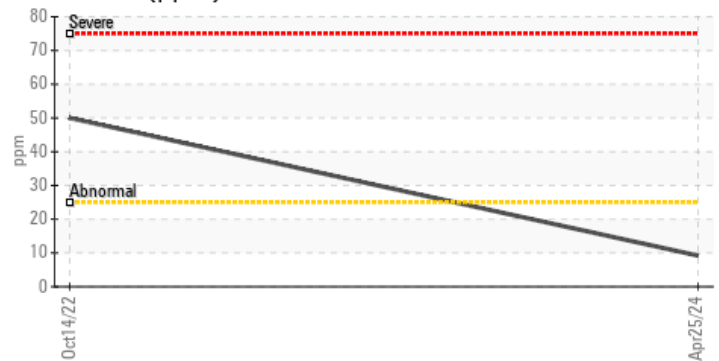
Chromium (ppm)



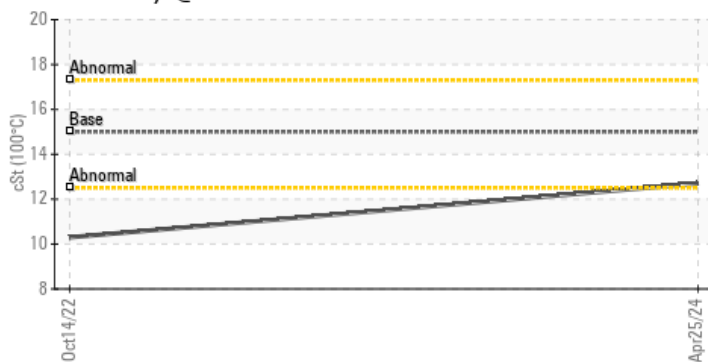
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

