



CONSTRUCTION EQUIPMENT

X48143 KOBELCO SK350LC-10 605072 - DIESEL ENGINE



Sample No: VCP450948
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X48143



SAMPLE INFORMATION

Sample Number	VCP450948	VCP371272	VCP371162	VCP371084
Sample Date	17 May 2024	18 Jan 2023	04 Jan 2023	19 Dec 2022
Machine Hours	4381	0	3657	3656
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	N/A	Not Chngd	Not Chngd
Sample Status	MARGINAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.2	12.9	13.1	13.1
Base Number (BN)	mg KOH/g	10.4	11.1	11	12.2
Oxidation (PA)	%	85	81	80	86

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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	0.1	0.1	0.1
Nitration (PA)	%	63	49	48	52
Sulfation (PA)	%	62	61	61	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	2.3	<1.0	<1.0	<1.0
Silicon	ppm	6	8	6	5
Sodium	ppm	3	0	4	0
Potassium	ppm	<1	0	1	2



WEAR METALS

Iron	ppm	5	0	4	4
Copper	ppm	3	2	1	1
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	2	<1	<1	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	40	39	42	44
Nickel	ppm	0	0	2	0
Titanium	ppm	0	0	0	<1
Silver	ppm	<1	0	0	1
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1670	1594	1694	1759
Magnesium	ppm	508	478	497	479
Zinc	ppm	1113	998	1114	1093
Phosphorus	ppm	952	846	916	922
Barium	ppm	0	0	0	0
Boron	ppm	54	70	70	66

Depot: VOLV00129
Unique No: 11042531
Signed: Wes Davis
Report Date: 24 May 2024

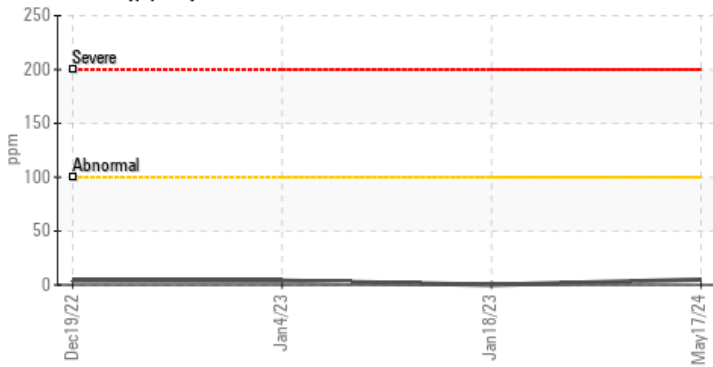


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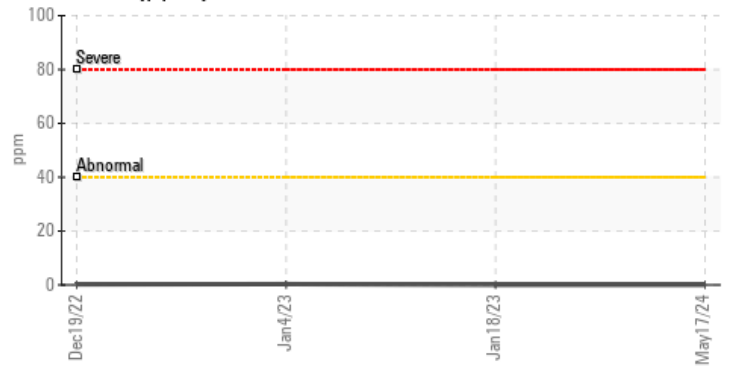


GRAPHS

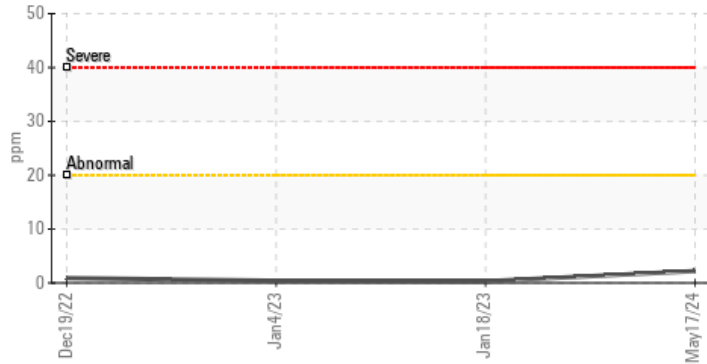
Iron (ppm)



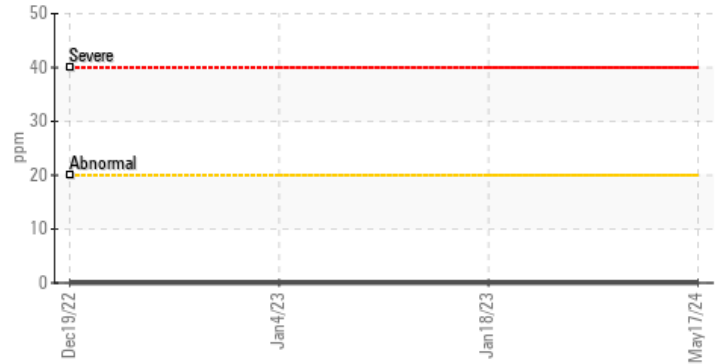
Lead (ppm)



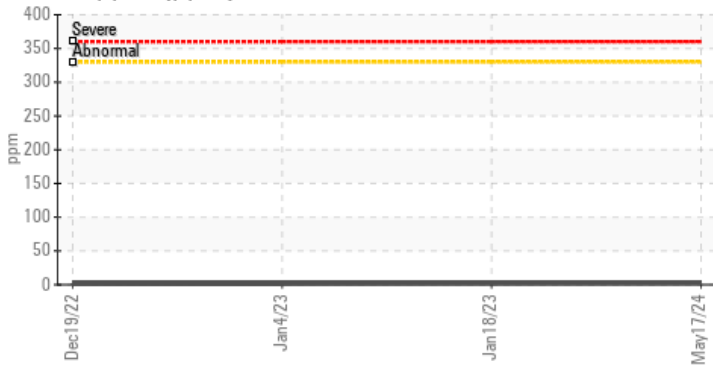
Aluminum (ppm)



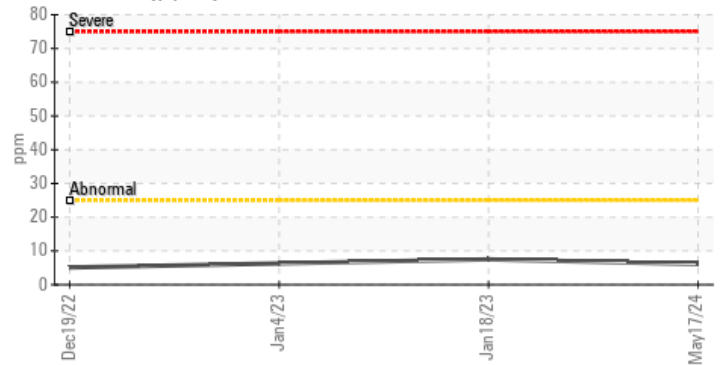
Chromium (ppm)



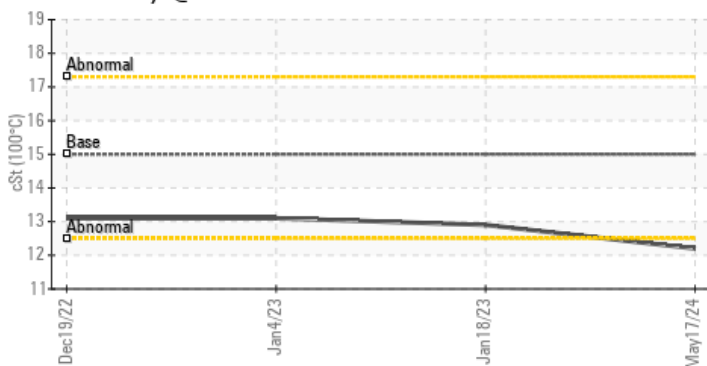
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

