



CONSTRUCTION EQUIPMENT

W07014094-1 STANLEY VOLVO A35G 342019 - DIESEL ENGINE



Sample No: VCP449043
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: W07014094-1 STANLEY



SAMPLE INFORMATION

Sample Number	VCP449043	VCP396741	VCP388454	VCP354342
Sample Date	05 Jan 2024	24 Feb 2023	17 Oct 2022	20 Jun 2022
Machine Hours	7825	6748	0	6056
Oil Hours	0	500	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	MARGINAL

MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND
 1345 MOUNTAIN ROAD
 GLEN ALLEN, VA
 US 23060
 Contact: KYLE RATLIFFE
 KRATLIFFE@MCCLUNG-LOGAN.COM
 T:
 F: (804)266-1611



OIL CONDITION

Visc @ 100°C	cSt	12.7	12.5	13.0	12.4
Base Number (BN)	mg KOH/g	5.4	7.8	9.9	6.3
Oxidation (PA)	%	54	67	73	83

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	NEG	NEG
Soot %	%	0.2	0.2	0.1	0.3
Nitration (PA)	%	76	78	72	89
Sulfation (PA)	%	52	54	60	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.2
Silicon	ppm	6	4	4	4
Sodium	ppm	2	1	3	2
Potassium	ppm	<1	1	0	0



WEAR METALS

Iron	ppm	6	6	8	9
Copper	ppm	2	2	<1	1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	3	2	1	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	80	54	48	47
Nickel	ppm	0	0	<1	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	2063	1187	1188	1333
Magnesium	ppm	35	692	751	655
Zinc	ppm	1186	842	843	828
Phosphorus	ppm	1007	655	670	648
Barium	ppm	0	0	0	<1
Boron	ppm	38	32	34	26

Depot: VOLVO8882
Unique No: 10822395
Signed: Don Baldrige
Report Date: 11 Jan 2024

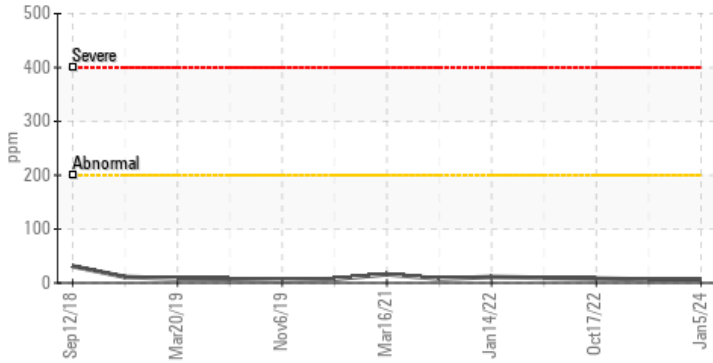


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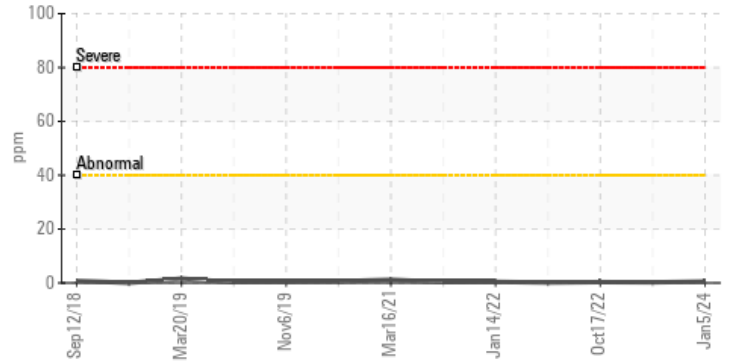


GRAPHS

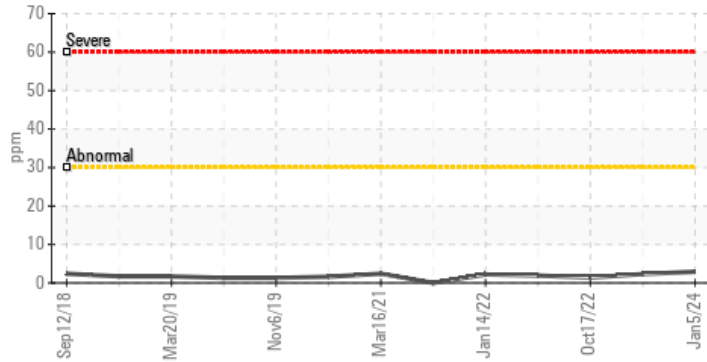
Iron (ppm)



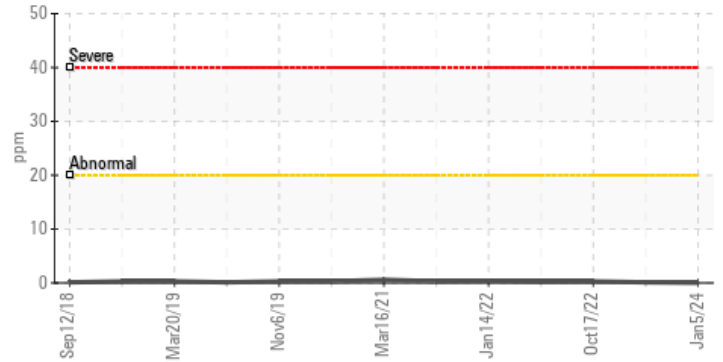
Lead (ppm)



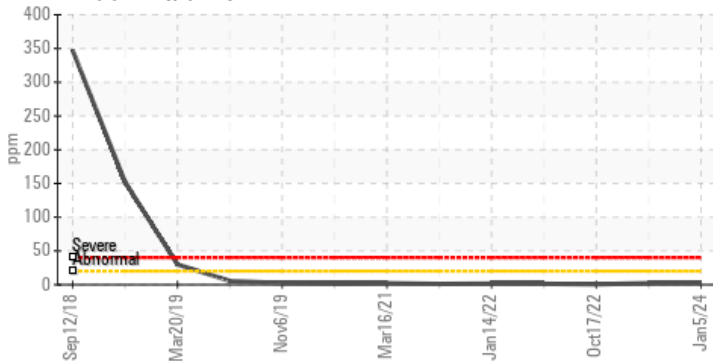
Aluminum (ppm)



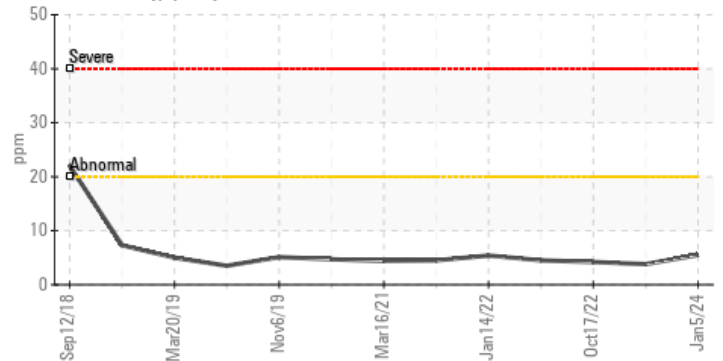
Chromium (ppm)



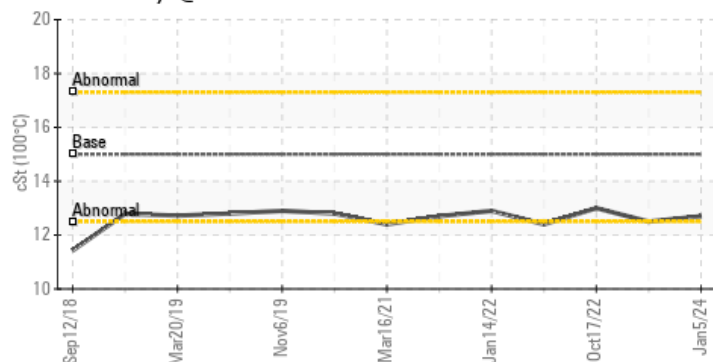
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

