CONSTRUCTION EQUIPMENT

14802 STANLEY VOLVO A35G 342021 - DIESEL ENGINE

Sample No: VCP418135
Oil Type: MOBIL 15W40
Job No: 14802 STANLEY

MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND
1345 MOUNTAIN ROAD
GLEN ALLEN, VA
US 23060
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SAMPLE INFORMATION

Sample Number		**VCP418135**	ML0001530	VCP447973	VCP414579
Sample Date		**13 May 2024**	18 Apr 2024	19 Dec 2023	10 Oct 2023
Machine Hours		**8598**	8487	8036	7675
Oil Hours		**100**	8487	0	500
Oil Changed		**Not Changd**	N/A	Changed	Changed
Sample Status		**ABNORMAL**	SEVERE	NORMAL	NORMAL

OIL CONDITION

Visc @ 100°C	cSt	**12.8**	12.6	12.9	12.8
Base Number (BN)	mg KOH/g	**10.6**	8.8	5.9	6.1
Oxidation (PA)	%	**76**	68	54	56

CONTAMINATION

Water	%	**NEG**	NEG	NEG	NEG
Soot %	%	**0.1**	0.2	0.1	0.2
Nitration (PA)	%	**51**	108	76	78
Sulfation (PA)	%	**61**	65	51	52
Glycol	%	**NEG**	0.10	NEG	NEG
Fuel	%	**<1.0**	<1.0	<1.0	<1.0
Silicon	ppm	**7**	20	4	5
Sodium	ppm	**219**	1470	27	28
Potassium	ppm	**23**	137	3	6

WEAR METALS

Iron	ppm	**5**	19	3	9
Copper	ppm	**2**	11	<1	2
Lead	ppm	**<1**	1	0	2
Tin	ppm	**<1**	<1	0	1
Aluminum	ppm	**2**	3	3	5
Chromium	ppm	**<1**	<1	0	<1
Molybdenum	ppm	**44**	76	79	81
Nickel	ppm	**<1**	0	0	<1
Titanium	ppm	**<1**	<1	0	0
Silver	ppm	**<1**	0	0	0
Manganese	ppm	**<1**	1	0	<1
Vanadium	ppm	**<1**	<1	<1	0

ADDITIVES

Calcium	ppm	**1539**	1197	1971	2095
Magnesium	ppm	**481**	526	28	112
Zinc	ppm	**1054**	739	1167	1225
Phosphorus	ppm	**940**	625	1009	1007
Barium	ppm	**0**	0	0	0
Boron	ppm	**47**	20	44	36

Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.

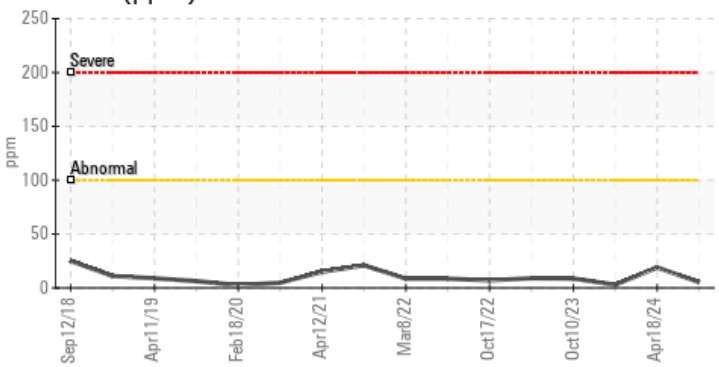
Depot: VOLVO8882
Unique No: 11032258
Signed: Jonathan Hester
Report Date: 20 May 2024

Report Id: VOLVO8882 [WUSCAR] 06180932 (Generated: 05/20/2024 08:41:39) Rev: 1

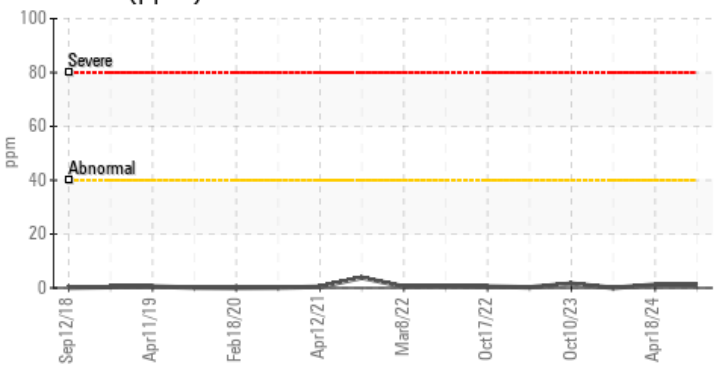
Submitted By: Austin Malkemus

GRAPHS

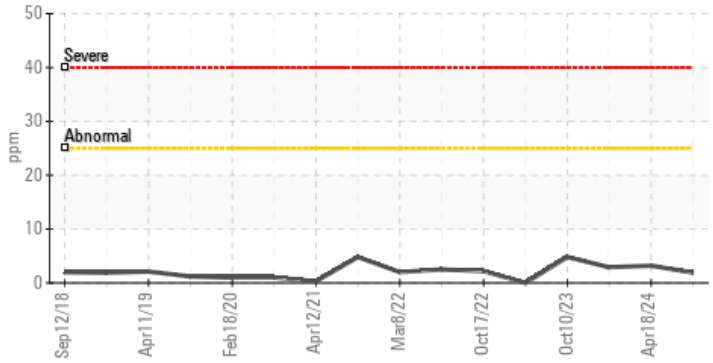
Iron (ppm)



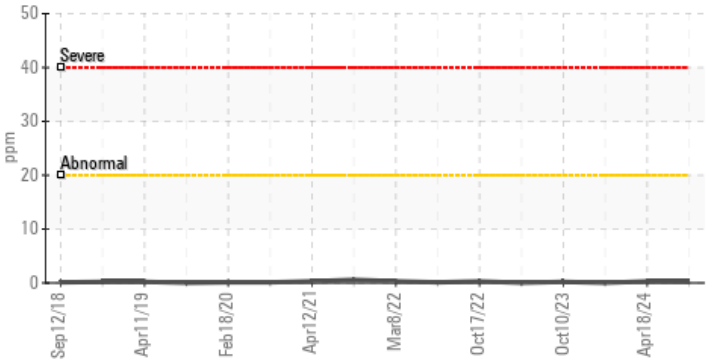
Lead (ppm)



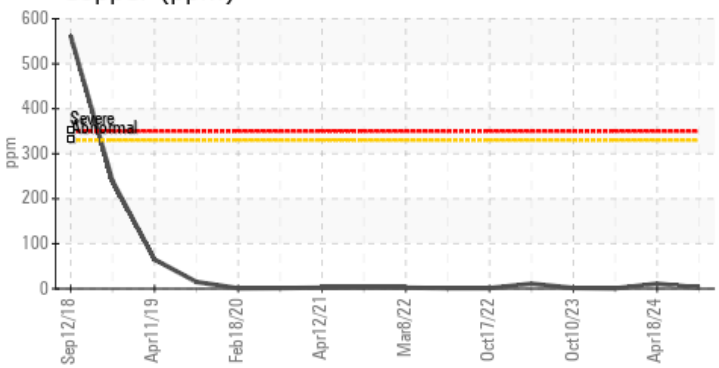
Aluminum (ppm)



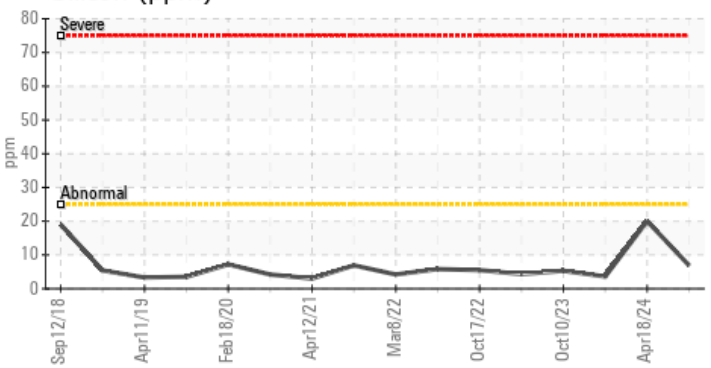
Chromium (ppm)



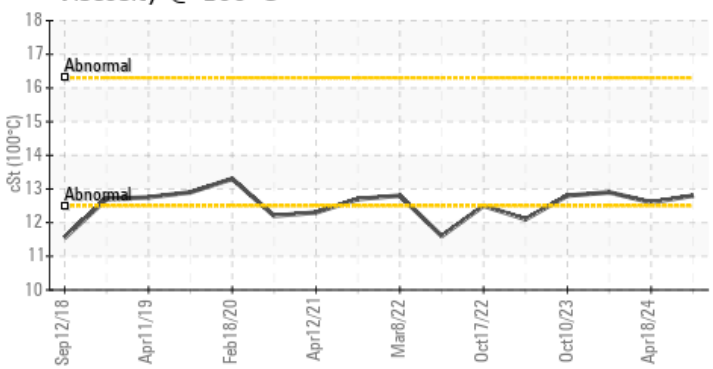
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number