



CONSTRUCTION EQUIPMENT

VOLVO A30G 752302 - DIESEL ENGINE



Sample No: VCP449211
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP449211	VCP432445	VCP414634	VCP392935
Sample Date	29 Jan 2024	23 Oct 2023	01 Sep 2023	25 Jul 2023
Machine Hours	4786	4260	4098	0
Oil Hours	0	500	500	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: PM Services
 PMServices@ripaconstruction.com
 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	12.3	12.4	12.2	12.3
Base Number (BN)	mg KOH/g	9.6	9.6	9.6	10.0
Oxidation (PA)	%	80	79	78	80

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	NEG	NEG
Soot %	%	0.3	0.3	0.4	0.2
Nitration (PA)	%	63	65	65	57
Sulfation (PA)	%	62	60	60	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	4	4
Sodium	ppm	0	2	0	2
Potassium	ppm	1	2	1	<1



WEAR METALS

Iron	ppm	9	6	6	5
Copper	ppm	4	2	<1	<1
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	2	0	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	42	47	46	41
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1700	1629	1500	1641
Magnesium	ppm	510	510	495	521
Zinc	ppm	1178	1119	1077	1164
Phosphorus	ppm	860	923	901	947
Barium	ppm	5	0	1	0
Boron	ppm	38	28	21	40

Depot: RIPTAM
Unique No: 10863257
Signed: Wes Davis
Report Date: 06 Feb 2024

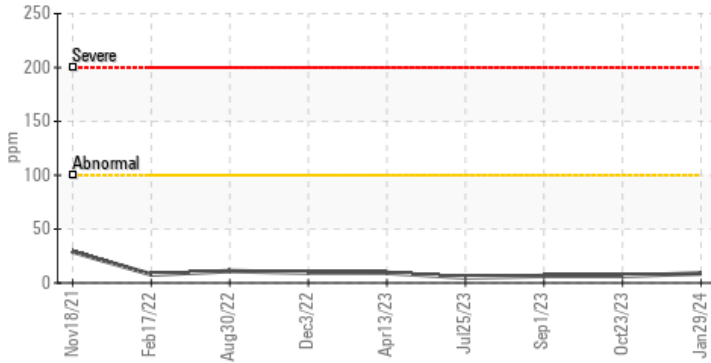


CONSTRUCTION EQUIPMENT

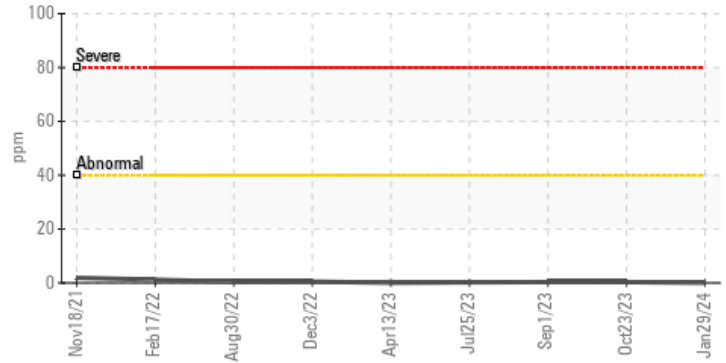


GRAPHS

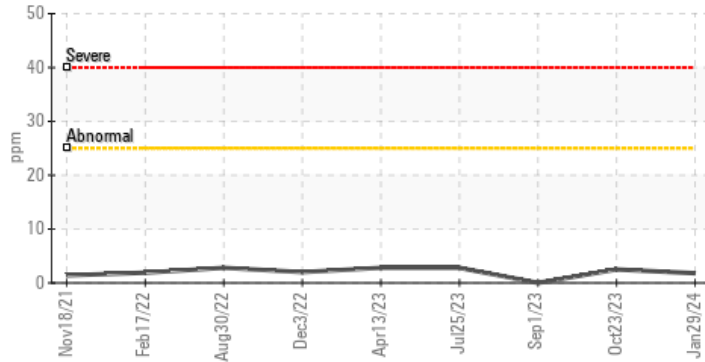
Iron (ppm)



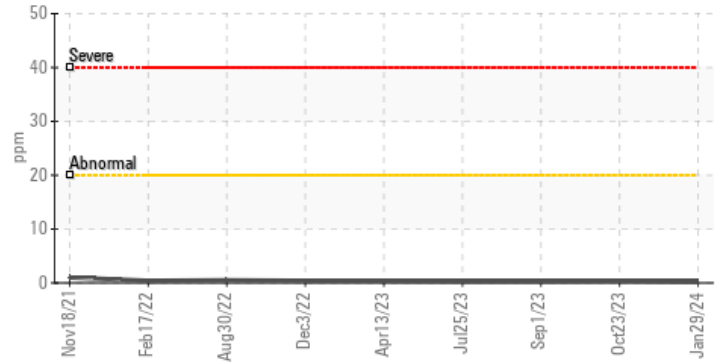
Lead (ppm)



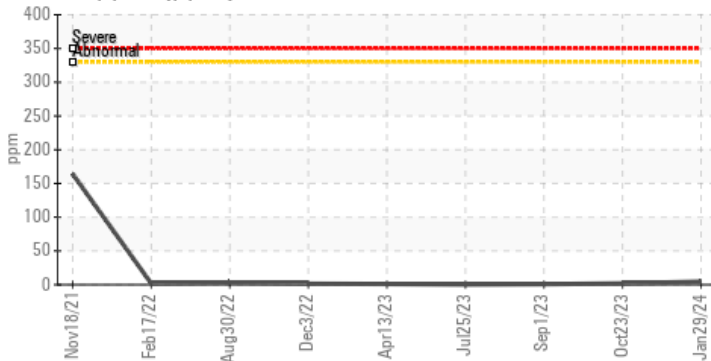
Aluminum (ppm)



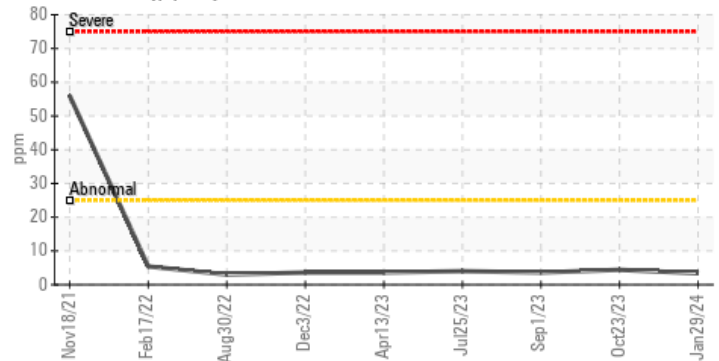
Chromium (ppm)



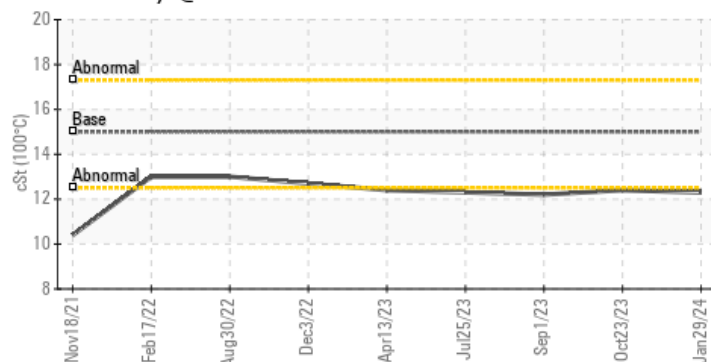
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

