



CONSTRUCTION EQUIPMENT

VOLVO A40G 752 153 - DIESEL ENGINE



Sample No: VCP440116
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP440116	VCP441728	VCP432067	VCP424515
Sample Date	06 Jun 2024	15 Feb 2024	27 Oct 2023	21 Jul 2023
Machine Hours	5632	5085	4507	3990
Oil Hours	0	0	0	500
Oil Changed	Changed	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	12.8	12.6	12.2	12.8
Base Number (BN)	mg KOH/g	8.5	8.8	9.5	9.0
Oxidation (PA)	%	79	72	77	76

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 %	%	0.6	0.5	0.5	0.4
Nitration (PA)	%	84	73	72	64
Sulfation (PA)	%	60	57	59	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.0	<1.0
Silicon	ppm	6	4	4	4
Sodium	ppm	<1	2	0	3
Potassium	ppm	3	2	4	2



WEAR METALS

Iron	ppm	13	10	11	8
Copper	ppm	2	2	1	<1
Lead	ppm	<1	0	0	<1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	5	6	4	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	49	49	48	40
Nickel	ppm	1	<1	<1	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1545	1576	1561	1709
Magnesium	ppm	672	612	527	486
Zinc	ppm	1166	1180	1065	1164
Phosphorus	ppm	951	1017	871	976
Barium	ppm	0	0	2	0
Boron	ppm	18	22	21	33

Depot: RIPTAM
Unique No: 11073543
Signed: Wes Davis
Report Date: 12 Jun 2024

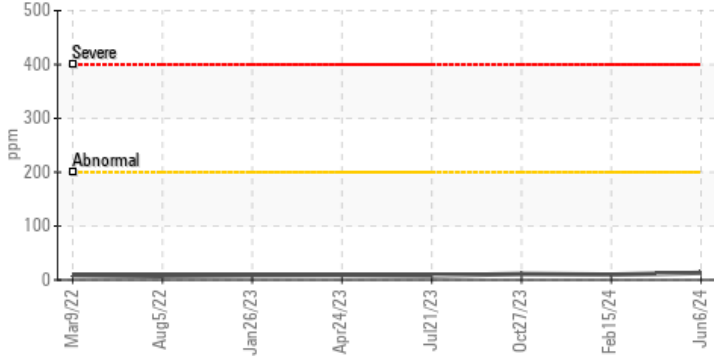


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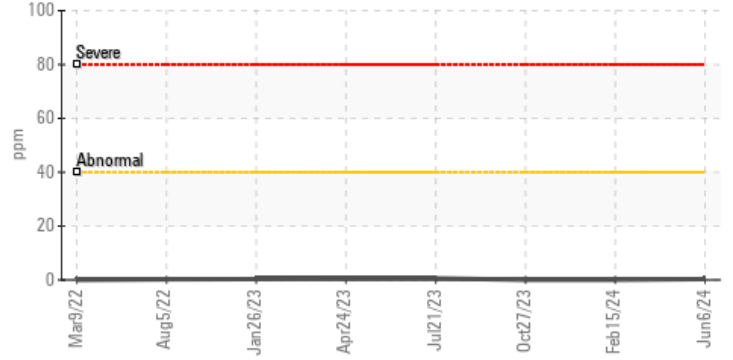


GRAPHS

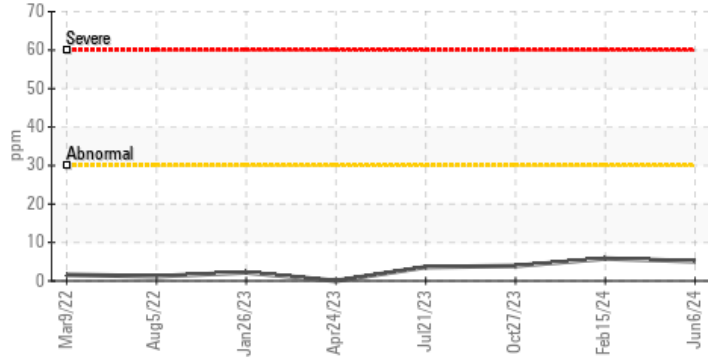
Iron (ppm)



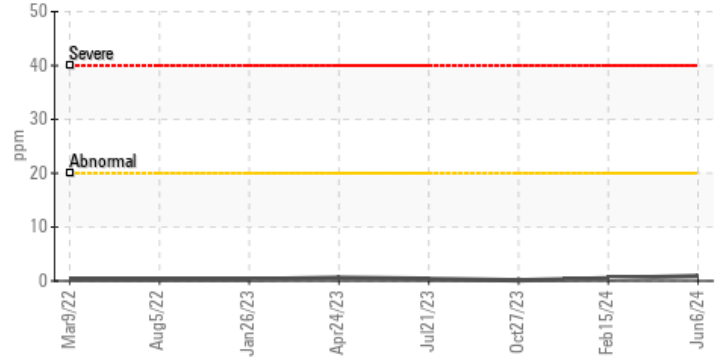
Lead (ppm)



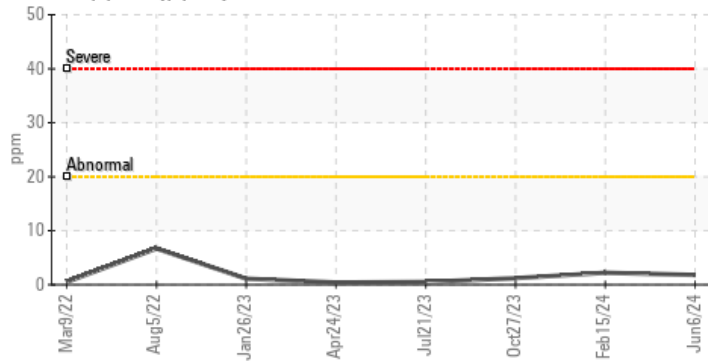
Aluminum (ppm)



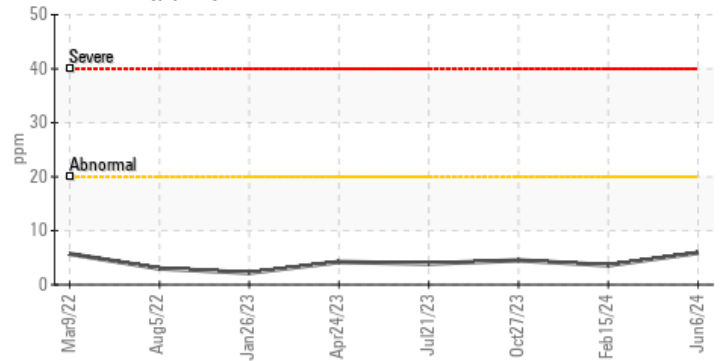
Chromium (ppm)



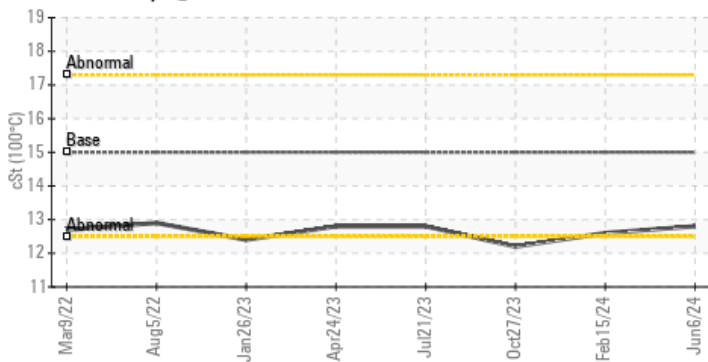
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

