



CONSTRUCTION EQUIPMENT

SCOTT HASLAM ELTEC ET 108 - DIESEL ENGINE



Sample No: VCP403732
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SCOTT HASLAM



SAMPLE INFORMATION

Sample Number	VCP403732	VCP424093	VCP315284	VCP424088
Sample Date	26 Sep 2023	16 Aug 2023	28 Jul 2023	25 Jul 2023
Machine Hours	3692	0	3249	0
Oil Hours	40	150	70	0
Oil Changed	Not Chngd	Changed	Not Chngd	Changed
Sample Status	ATTENTION	SEVERE	SEVERE	SEVERE

CHADWICK-BAROSS INC
 188 PERRY ROAD
 BANGOR, ME
 US 04401
 Contact: MIKE MORIN
 mmorin@chadwick-baross.com
 T: (207)735-0856
 F: (207)941-0856

OIL CONDITION

Visc @ 100°C	cSt	▲ 12.0	9.9	10.4	8.7
Base Number (BN)	mg KOH/g	■ 10.8	9.9	10.2	9.0
Oxidation (PA)	%	79	81	77	81

CONTAMINATION

Soot %	%	■ 0.2	0.6	0.3	0.7
Nitration (PA)	%	47	71	58	80
Sulfation (PA)	%	61	63	60	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	▲ 3.4	14.5	10.4	17.6
Silicon	ppm	■ 4	3	3	3
Sodium	ppm	■ <1	0	1	2
Potassium	ppm	■ 1	1	<1	0

WEAR METALS

Iron	ppm	■ 3	8	4	13
Copper	ppm	■ <1	2	<1	1
Lead	ppm	■ 0	<1	0	0
Tin	ppm	■ <1	<1	0	0
Aluminum	ppm	■ 2	1	2	<1
Chromium	ppm	■ 0	<1	<1	<1
Molybdenum	ppm	■ 40	35	37	34
Nickel	ppm	■ 0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	■ 0	<1	0	0
Manganese	ppm	■ <1	<1	<1	<1
Vanadium	ppm	0	0	0	<1

ADDITIVES

Calcium	ppm	■ 1559	1394	1551	1389
Magnesium	ppm	■ 445	400	478	440
Zinc	ppm	■ 1058	939	1073	925
Phosphorus	ppm	■ 894	783	889	767
Barium	ppm	■ 0	2	0	0
Boron	ppm	■ 60	36	48	38

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. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VOLVO0007
Unique No: 10671652
Signed: Jonathan Hester
Report Date: 03 Oct 2023

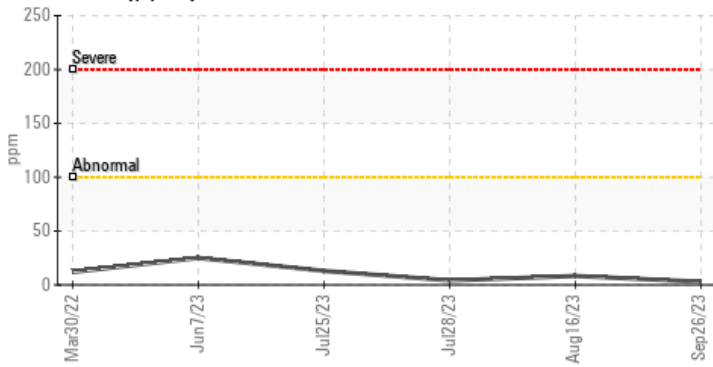


CONSTRUCTION EQUIPMENT

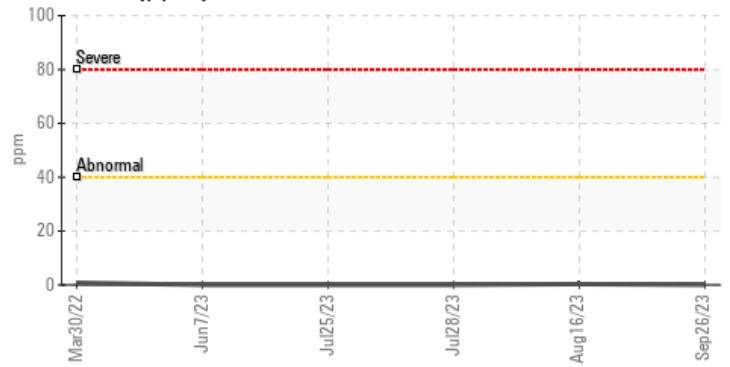


GRAPHS

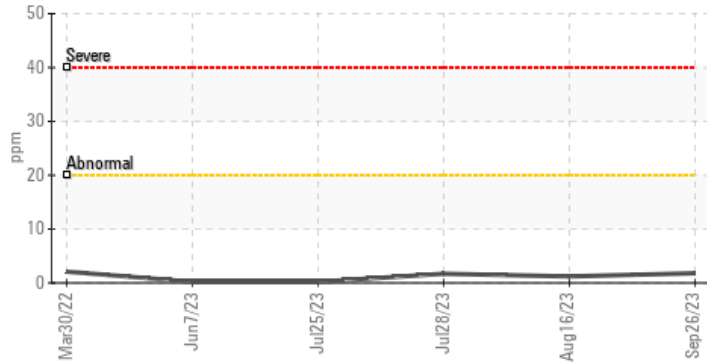
Iron (ppm)



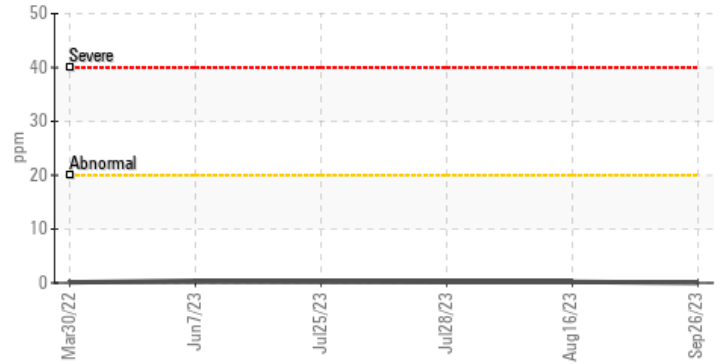
Lead (ppm)



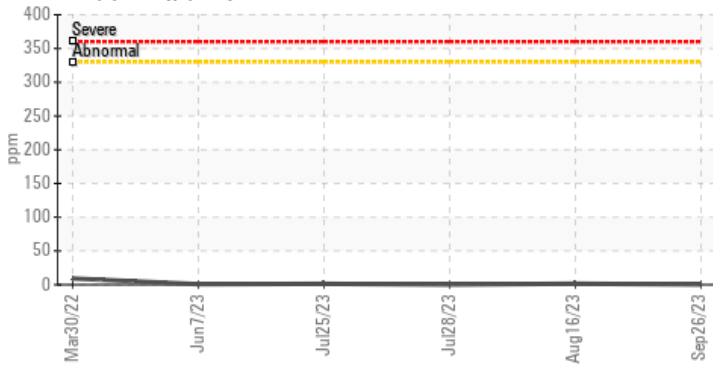
Aluminum (ppm)



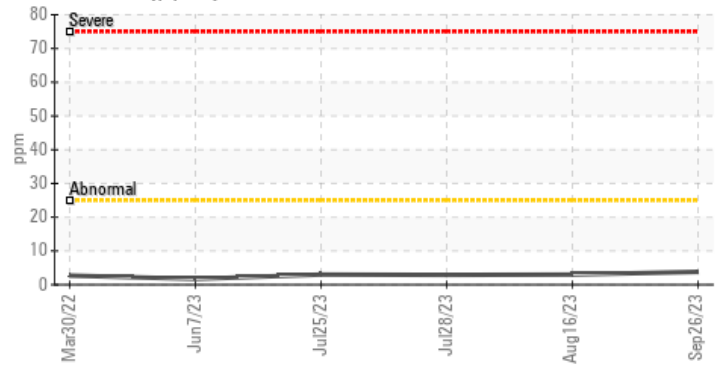
Chromium (ppm)



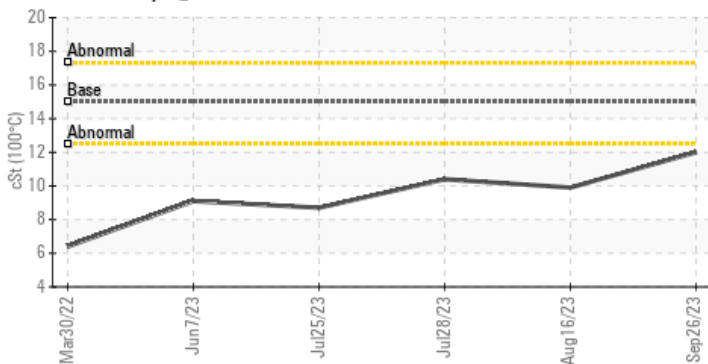
Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C



Base Number

