



CONSTRUCTION EQUIPMENT

TREWORKS 8000409458 VOLVO ECR145E 316021 - DIESEL ENGINE



Sample No: VCP450320
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 8000409458



SAMPLE INFORMATION

Sample Number	VCP450320	VCP392025	---	---
Sample Date	28 Jun 2024	01 Dec 2023	---	---
Machine Hours	1458	977	---	---
Oil Hours	500	500	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

STRONGCO EQUIPMENT INC.
55 ISNOR DRIVE, BURNSIDE INDUSTRIALPARK
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OIL CONDITION

Visc @ 100°C	cSt	█ 12.5	█ 12.7	---	---
Oxidation (PA)	%	█ 83	█ 81	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.2	█ 0.2	---	---
Nitration (PA)	%	█ 63	█ 66	---	---
Sulfation (PA)	%	█ 62	█ 61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	█ <1.0	█ 1.7	---	---
Silicon	ppm	█ 5	█ 8	---	---
Sodium	ppm	█ 3	█ 3	---	---
Potassium	ppm	█ <1	█ <1	---	---

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 condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	█ 23	█ 41	---	---
Copper	ppm	█ 1	█ 4	---	---
Lead	ppm	█ 0	█ <1	---	---
Tin	ppm	█ <1	█ 1	---	---
Aluminum	ppm	█ 6	█ 18	---	---
Chromium	ppm	█ 1	█ 2	---	---
Molybdenum	ppm	█ 38	█ 35	---	---
Nickel	ppm	█ 1	█ 3	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	█ 1684	█ 1699	---	---
Magnesium	ppm	█ 486	█ 438	---	---
Zinc	ppm	█ 1005	█ 1046	---	---
Phosphorus	ppm	█ 826	█ 859	---	---
Barium	ppm	█ 0	█ <1	---	---
Boron	ppm	█ 36	█ 34	---	---

Depot: SHEDAR
Unique No: 5802674
Signed: Wes Davis
Report Date: 03 Jul 2024

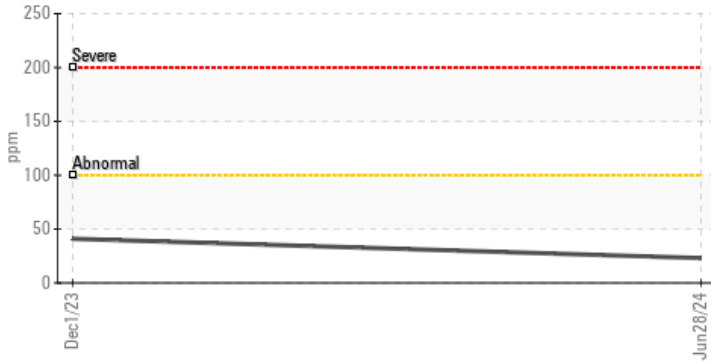


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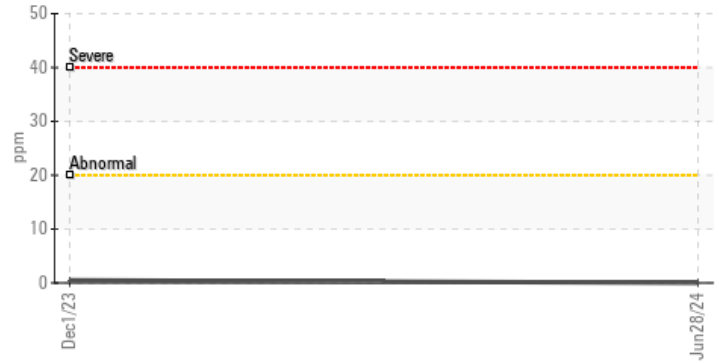


GRAPHS

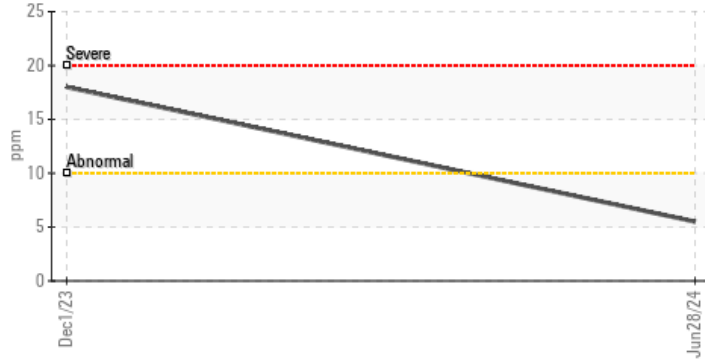
Iron (ppm)



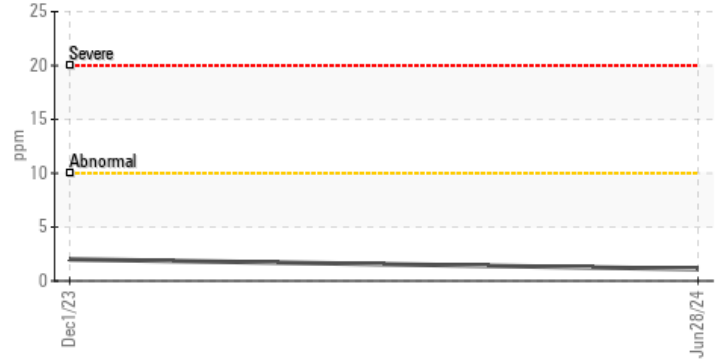
Lead (ppm)



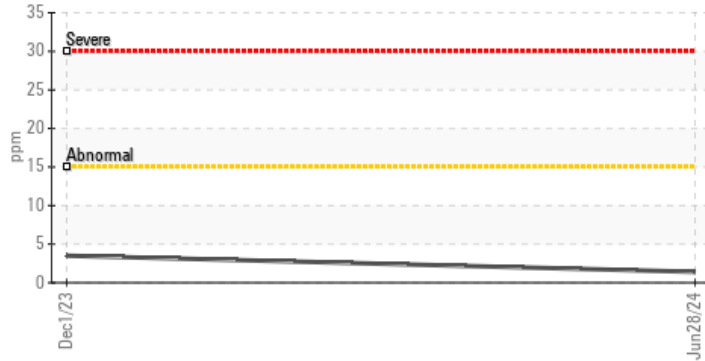
Aluminum (ppm)



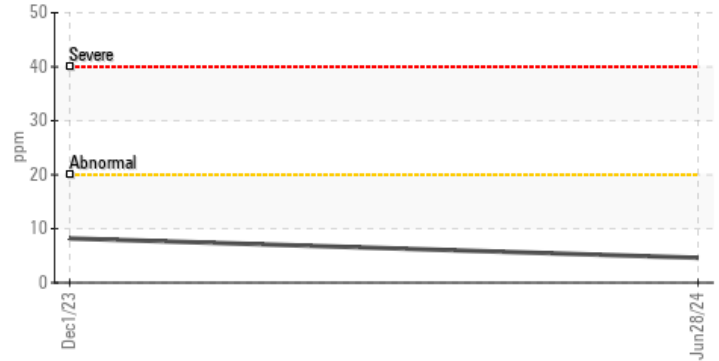
Chromium (ppm)



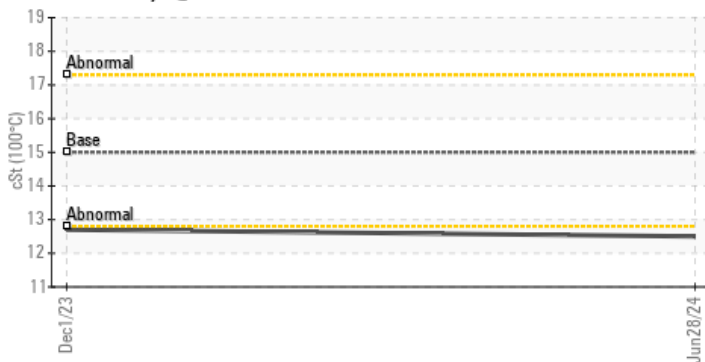
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

