



CONSTRUCTION EQUIPMENT

TAKEUCHI TB240 124008566 - DIESEL ENGINE



Sample No: ML0000548
Oil Type: VALVOLINE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	ML0000548	---	---	---
Sample Date	28 Feb 2024	---	---	---
Machine Hours	44	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

MCCLUNG-LOGAN EQUIPMENT CO - FREDERICKSBURG
 358 KINGS HWY
 FREDERICKSBURG, VA
 US 22405
 Contact: TIM LAMBERT
 tlambert@mcclung-logan.com
 T: (540)684-4339
 F:



OIL CONDITION

Visc @ 100°C	cSt	● 10.2	---	---	---
Base Number (BN)	mg KOH/g	■ 7.6	---	---	---
Oxidation (PA)	%	▲ 43	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Sodium and/or potassium levels are high. Fuel content negligible. Test for glycol is negative. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	▲ 48	---	---	---
Sulfation (PA)	%	▲ 44	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 1.2	---	---	---
Silicon	ppm	■ 36	---	---	---
Sodium	ppm	■ 11	---	---	---
Potassium	ppm	▲ 185	---	---	---



WEAR METALS

Iron	ppm	■ 7	---	---	---
Copper	ppm	■ 6	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 156	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 2019	---	---	---
Magnesium	ppm	■ 16	---	---	---
Zinc	ppm	■ 747	---	---	---
Phosphorus	ppm	■ 616	---	---	---
Barium	ppm	■ 5	---	---	---
Boron	ppm	■ 211	---	---	---

Depot: MCCFRE
Unique No: 10909356
Signed: Jonathan Hester
Report Date: 05 Mar 2024

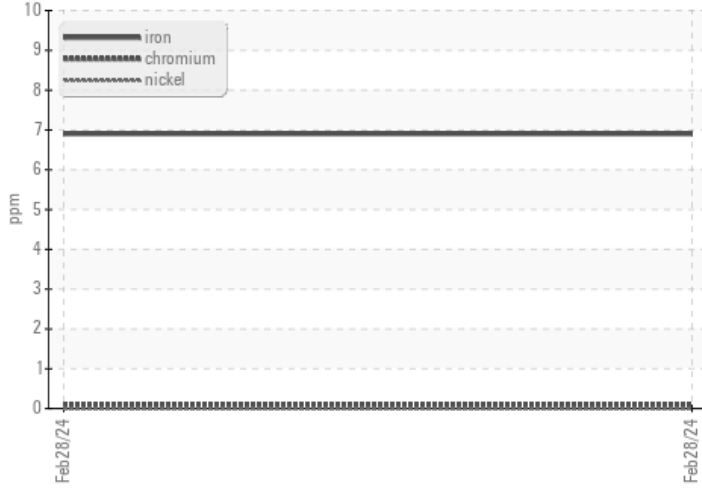


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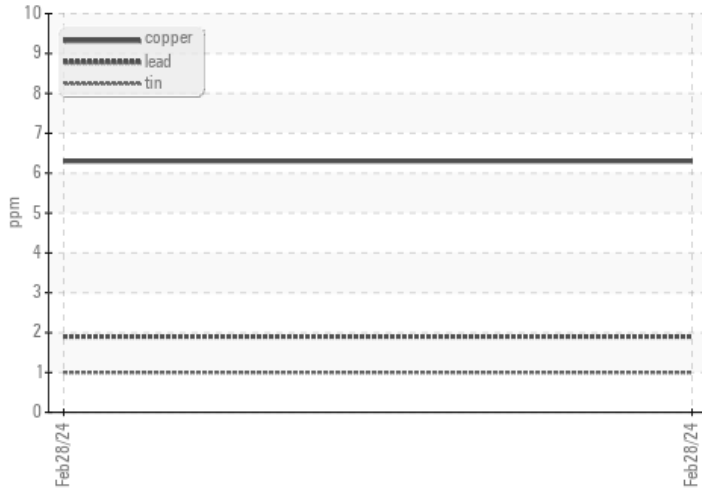


GRAPHS

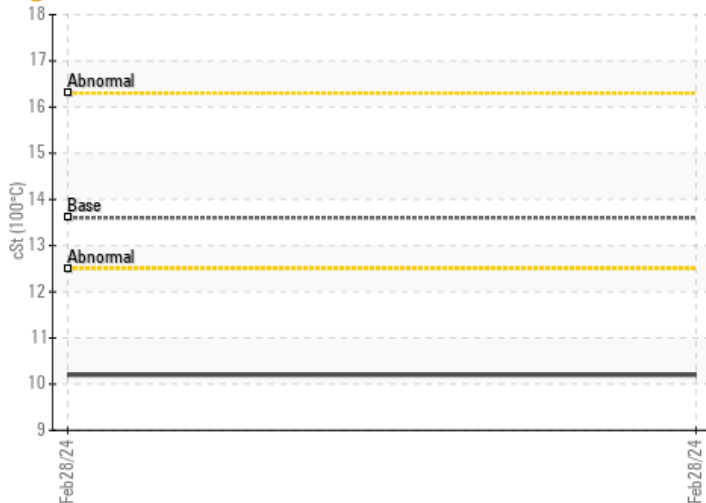
Ferrous Alloys



Non-ferrous Metals



● Viscosity @ 100°C



Base Number

