

LIEBHERR

CONSTRUCTION EQUIPMENT



TOYOTA TUNDRA 5.7 TOYOTA TUNDRA (S/N 144901-1216) - Diesel

Sample No: LH0257716

Oil Type: DIESEL ENGINE OIL 10W40



DERICHEBOURG RECYCLING
 1 WHARF ST
 HOUSTON, TX
 US 77012
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 F:



Sample Information

Sample Number	LH0257716	LH0259153	---	---
Sample Date	29 Apr 2024	27 Feb 2024	---	---
Machine Hours	2739	2327	---	---
Oil Hours	500	817	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---



Oil Condition

Visc @ 100°C	cSt	13.4	13.3	---	---
Base Number (BN)	mg KOH/g	8.6	7.4	---	---
Oxidation (PA)	%	78	88	---	---



Contamination

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	77	84	---	---
Sulfation (PA)	%	53	58	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	7	7	---	---
Sodium	ppm	0	2	---	---
Potassium	ppm	4	5	---	---



Wear Metals

Iron	ppm	4	5	---	---
Copper	ppm	4	24	---	---
Lead	ppm	<1	3	---	---
Tin	ppm	<1	1	---	---
Aluminum	ppm	3	2	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	5	1	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	<1	1	---	---
Vanadium	ppm	<1	<1	---	---



Additives

Calcium	ppm	1376	1429	---	---
Magnesium	ppm	828	836	---	---
Zinc	ppm	969	951	---	---
Phosphorus	ppm	942	791	---	---
Barium	ppm	0	0	---	---
Boron	ppm	153	77	---	---

Diagnosis

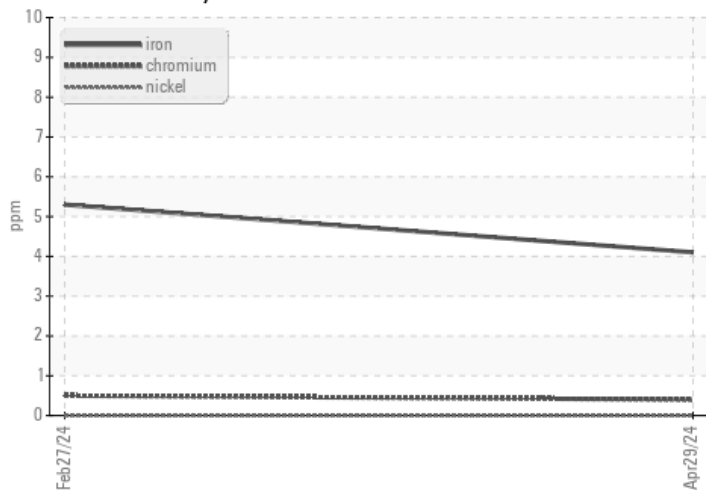
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: DERHOU
 Unique No: 11069675
 Signed: Sean Felton
 Report Date: 11 Jun 2024

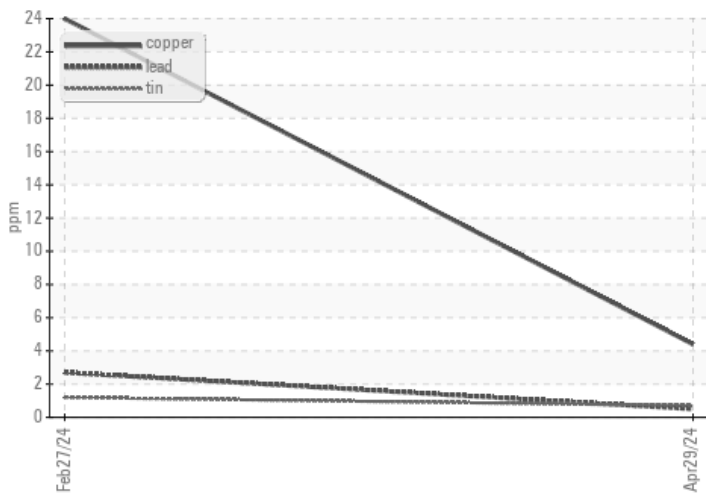


Graphs

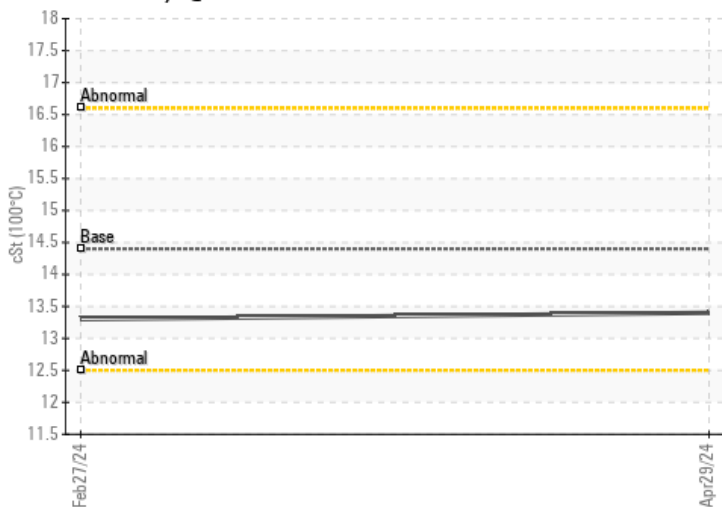
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

