

LIEBHERR

CONSTRUCTION EQUIPMENT



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

Sample No: LH0257717

Oil Type: GEAR OIL SAE 80W90



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



Sample Information

Sample Number	LH0257717	LH0259160	---	---
Sample Date	29 Apr 2024	27 Feb 2024	---	---
Machine Hours	2739	2327	---	---
Oil Hours	500	817	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---



Oil Condition

Visc @ 40°C	cSt	● 125	● 133	---	---
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Contamination

Water	%	NEG	NEG	---	---
Silicon	ppm	● 2	● 4	---	---
Sodium	ppm	● 2	● 0	---	---
Potassium	ppm	● 1	● 2	---	---



Wear Metals

Iron	ppm	● 201	● 627	---	---
Copper	ppm	● 191	● 477	---	---
Lead	ppm	● 1	● <1	---	---
Tin	ppm	● 5	● 14	---	---
Aluminum	ppm	● 0	● 2	---	---
Chromium	ppm	● 2	● 5	---	---
Molybdenum	ppm	● 5	● 2	---	---
Nickel	ppm	● 0	● <1	---	---
Titanium	ppm	● <1	● <1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	● 2	● 6	---	---
Vanadium	ppm	<1	<1	---	---



Additives

Calcium	ppm	● 379	● 474	---	---
Magnesium	ppm	● 22	● 8	---	---
Zinc	ppm	● 104	● 173	---	---
Phosphorus	ppm	● 1385	● 1723	---	---
Barium	ppm	● 0	● 3	---	---
Boron	ppm	● 219	● 259	---	---

Diagnosis

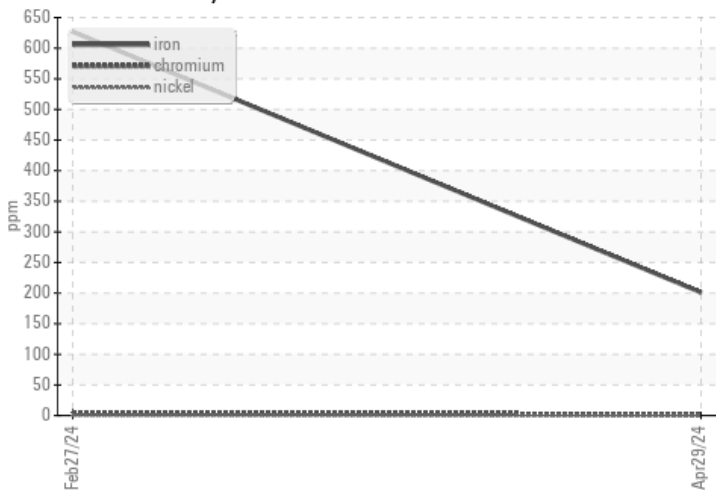
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: DERHOU
 Unique No: 11063009
 Signed: Don Baldrige
 Report Date: 08 Jun 2024

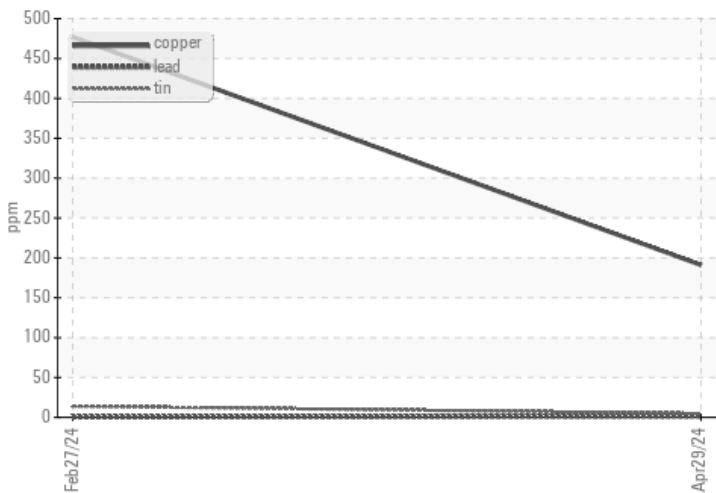


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

