



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
KENWORTH T880 TRUCK 3
 Component
Diesel Engine
 Fluid
SHELL ROTELLA T3 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PE0003018	PE0003023	---
Sample Date		Client Info		11 May 2024	11 Jan 2024	---
Machine Age	hrs	Client Info		1512	523	---
Oil Age	hrs	Client Info		500	523	---
Filter Age	hrs	Client Info		500	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	11	7	---
Chromium	ppm	ASTM D5185m	>20	<1	0	---
Nickel	ppm	ASTM D5185m	>2	0	0	---
Titanium	ppm	ASTM D5185m	>2	0	0	---
Silver	ppm	ASTM D5185m	>2	<1	0	---
Aluminum	ppm	ASTM D5185m	>20	4	5	---
Lead	ppm	ASTM D5185m	>40	0	<1	---
Copper	ppm	ASTM D5185m	>330	<1	4	---
Tin	ppm	ASTM D5185m	>15	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

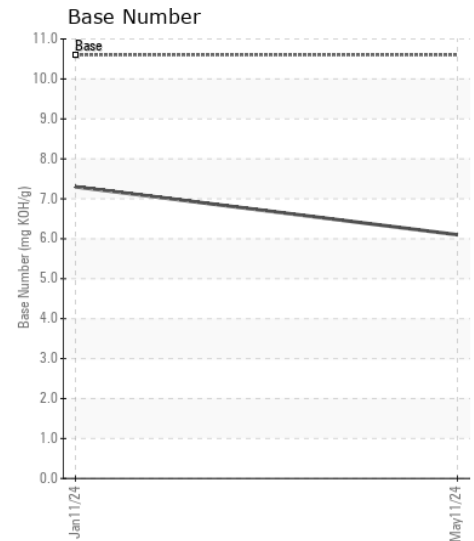
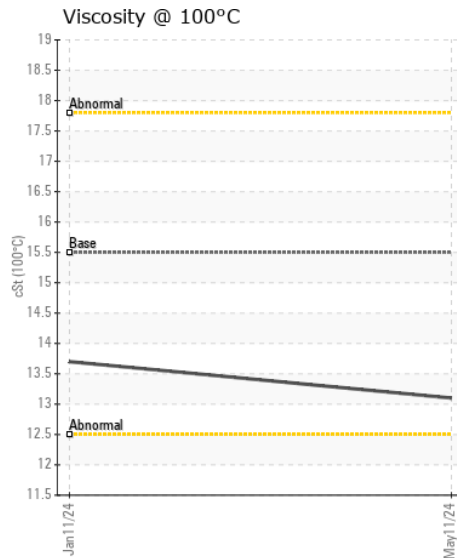
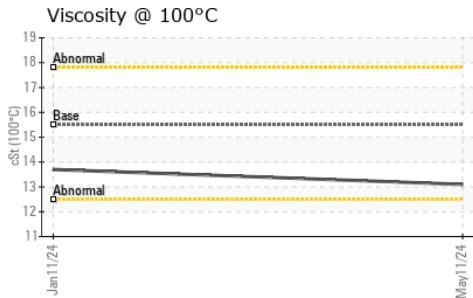
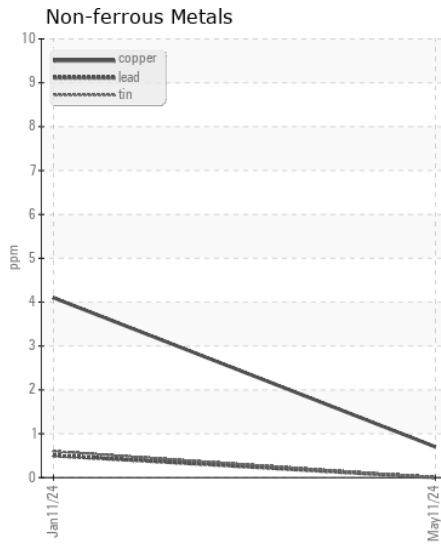
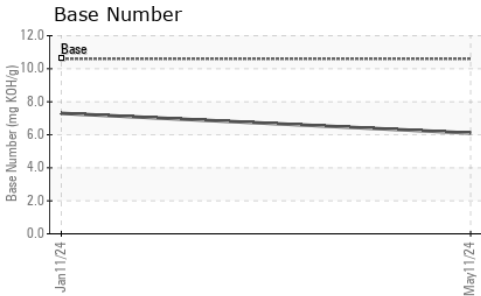
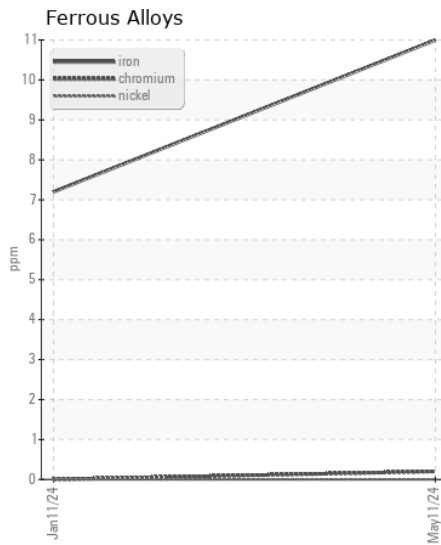
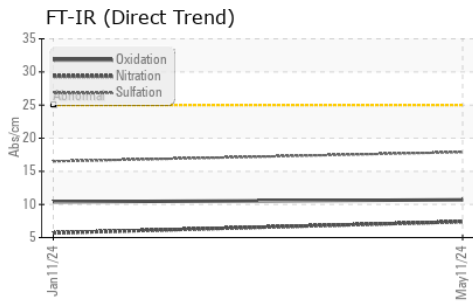
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	10	---
Potassium	ppm	ASTM D5185m	>20	7	10	---
Fuel		WC Method	>3.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>6	0.2	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	7.4	5.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9	16.5	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<1	2	---
Boron	ppm	ASTM D5185m	10	2	9	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	10	0	5	---
Manganese	ppm	ASTM D5185m		0	<1	---
Magnesium	ppm	ASTM D5185m	10	29	94	---
Calcium	ppm	ASTM D5185m	2600	2300	1852	---
Phosphorus	ppm	ASTM D5185m	1050	930	850	---
Zinc	ppm	ASTM D5185m	1250	1099	976	---
Sulfur	ppm	ASTM D5185m	3900	4239	3457	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	10.7	10.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.6	6.1	7.3	---
Visc @ 100°C	cSt	ASTM D445	15.5	13.1	13.7	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PE0003018 **Received** : 11 Jul 2024
Lab Number : 06232933 **Tested** : 11 Jul 2024
Unique Number : 11116426 **Diagnosed** : 12 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: FT-IR, ICP, KV100, SCREEN, TBN)

CHEHALIS VALLEY TIMBER
 414 E WYNOOCHE
 MONTESANO, WA
 US 98563
 Contact: TECHNICIAN ACCOUNT
 cvtshop@outlook.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:
F: