



WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[Z20821]

Machine Id

KENWORTH T610 MEL390 (S/N 80130947)

Component

Diesel Engine

Fluid

VALVOLINE (45 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC06189892	WC05954562	---
Sample Date		Client Info		22 Apr 2024	24 Aug 2023	---
Machine Age	kms	Client Info		760669	642627	---
Oil Age	kms	Client Info		36974	28114	---
Filter Age	kms	Client Info		36974	28114	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	12	6	---
Chromium	ppm	ASTM D5185m	>20	1	<1	---
Nickel	ppm	ASTM D5185m	>2	<1	0	---
Titanium	ppm	ASTM D5185m	>2	2	0	---
Silver	ppm	ASTM D5185m	>2	<1	0	---
Aluminum	ppm	ASTM D5185m	>20	2	0	---
Lead	ppm	ASTM D5185m	>40	2	0	---
Copper	ppm	ASTM D5185m	>330	1	0	---
Tin	ppm	ASTM D5185m	>15	1	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

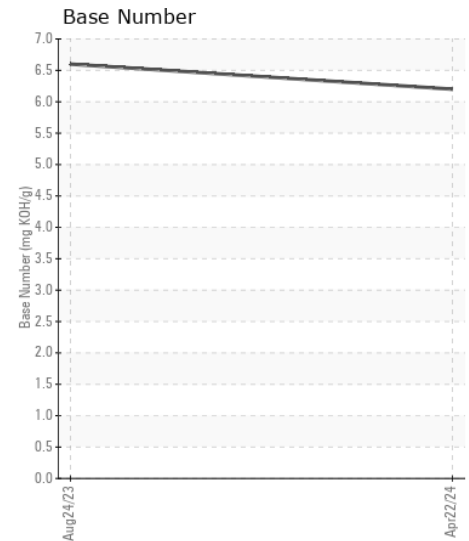
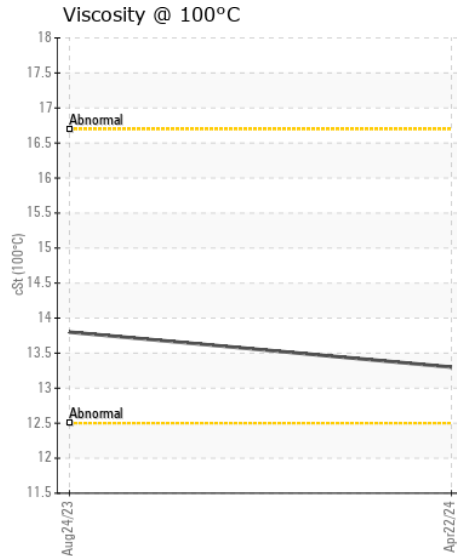
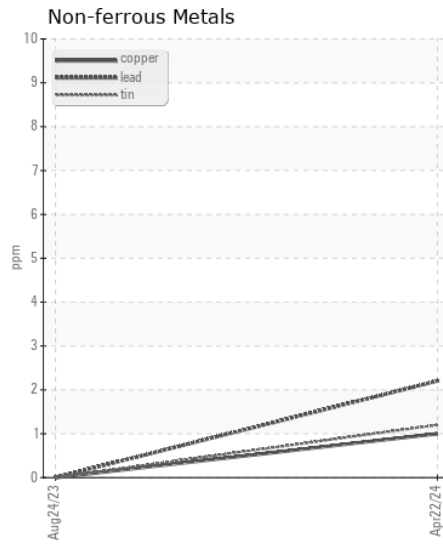
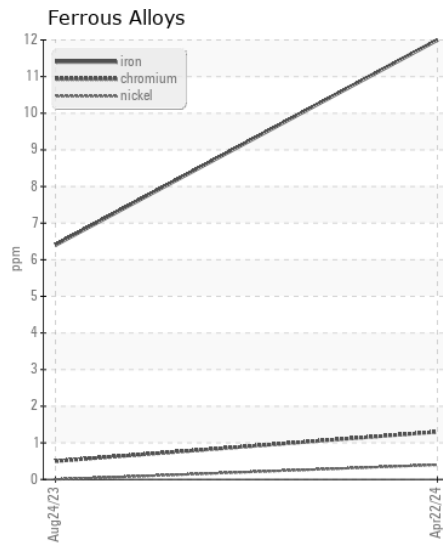
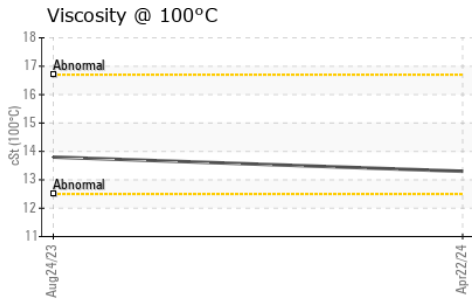
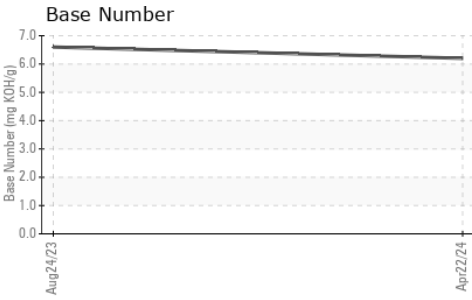
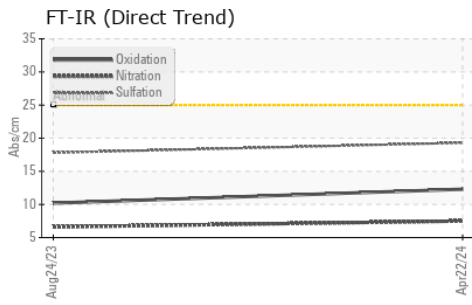
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	7	5	---
Potassium	ppm	ASTM D5185m	>20	4	<1	---
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	0.4	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	7.5	6.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	17.8	---
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 suitable for further service.

Sodium	ppm	ASTM D5185m		<1	1	---
Boron	ppm	ASTM D5185m		7	4	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		8	0	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		33	18	---
Calcium	ppm	ASTM D5185m		2669	2583	---
Phosphorus	ppm	ASTM D5185m		969	889	---
Zinc	ppm	ASTM D5185m		1177	1088	---
Sulfur	ppm	ASTM D5185m		3975	4259	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.3	10.2	---
Base Number (BN)	mg KOH/g	ASTM D2896		6.2	6.6	---
Visc @ 100°C	cSt	ASTM D445		13.3	13.8	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC06189892
Lab Number : 06189892
Unique Number : 11046644
Test Package : FLEET

Received : 23 May 2024
Tested : 25 May 2024
Diagnosed : 25 May 2024 - Wes Davis

ALLIED CONCRETE PENROSE

AUCKLAND,
 NZ

Contact: STEVE FURSDON
 steve.fursdon@hwr.co.nz

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: