



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[Z20816]

Machine Id

KENWORTH TLL 26

Component

Front Diesel Engine

Fluid

VALVOLINE 15W40 (48 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC06189887	WC06067280	WC05892630
Sample Date		Client Info		29 Apr 2024	22 Dec 2023	21 Jun 2023
Machine Age	kms	Client Info		826197	763799	701504
Oil Age	kms	Client Info		62398	36520	59200
Filter Age	kms	Client Info		62398	36520	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	38	16	61
Chromium	ppm	ASTM D5185m	>20	3	<1	4
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	3
Lead	ppm	ASTM D5185m	>40	21	7	14
Copper	ppm	ASTM D5185m	>330	2	1	4
Tin	ppm	ASTM D5185m	>15	2	<1	3
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

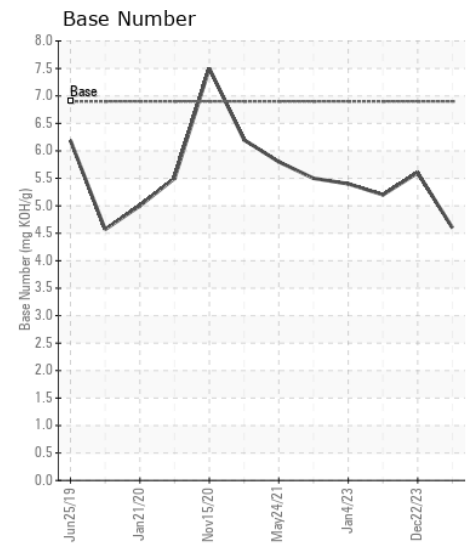
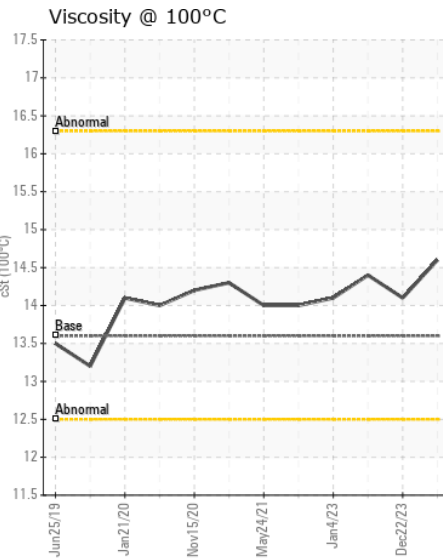
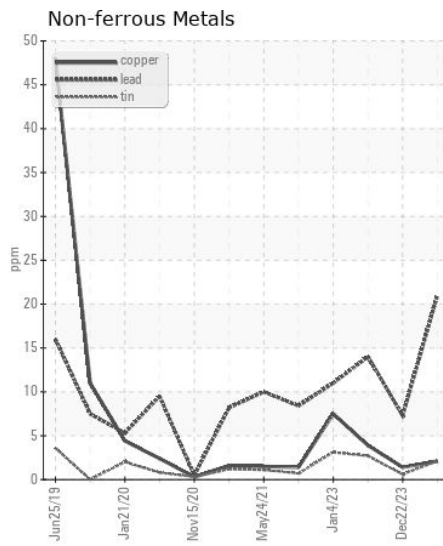
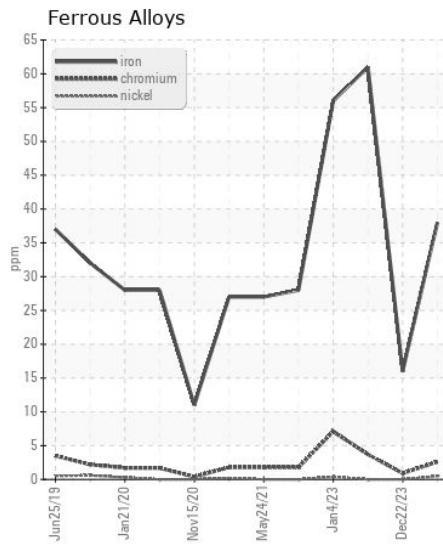
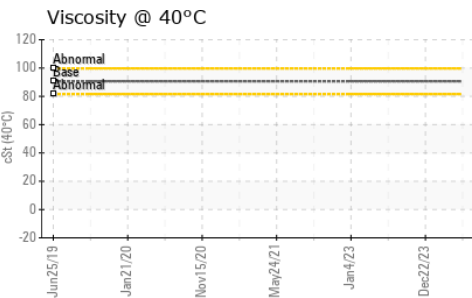
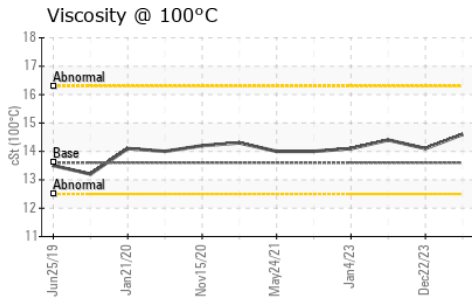
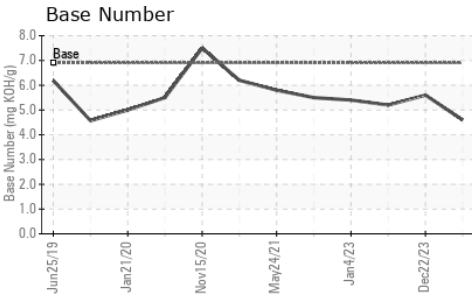
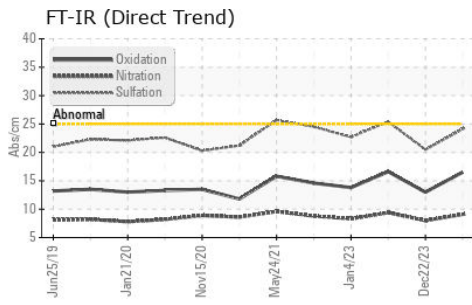
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	7	14
Potassium	ppm	ASTM D5185m	>20	2	0	2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.6	0.4	1
Nitration	Abs/cm	*ASTM D7624	>20	9.1	8.0	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.1	20.5	25.4
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	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		2	1	4
Boron	ppm	ASTM D5185m	39	1	3	6
Barium	ppm	ASTM D5185m	1	0	0	0
Molybdenum	ppm	ASTM D5185m	49	2	<1	5
Manganese	ppm	ASTM D5185m	1	<1	<1	1
Magnesium	ppm	ASTM D5185m	616	22	24	40
Calcium	ppm	ASTM D5185m	1554	2873	2348	2780
Phosphorus	ppm	ASTM D5185m	899	1007	895	1030
Zinc	ppm	ASTM D5185m	1069	1247	1133	1282
Sulfur	ppm	ASTM D5185m	2624	3902	3510	4509
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	13.0	16.6
Base Number (BN)	mg KOH/g	ASTM D2896	6.9	4.6	5.6	5.2
Visc @ 100°C	cSt	ASTM D445	13.6	14.6	14.1	14.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC06189887
Lab Number : 06189887
Unique Number : 11046639
Test Package : FLEET (Additional Tests: kv40)

Received : 23 May 2024
Tested : 29 May 2024
Diagnosed : 29 May 2024 - Sean Felton

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)

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