



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
KENWORTH T800 ST43 (S/N 330656)
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL 10W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		HPL0004304	HPL0003795	HPL0002442
Sample Date		Client Info		24 May 2024	06 Jan 2024	07 Sep 2023
Machine Age	hrs	Client Info		2615	1727	925
Oil Age	hrs	Client Info		0	0	490
Filter Age	hrs	Client Info		0	0	490
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	26	28	18
Chromium	ppm	ASTM D5185m	>20	1	1	2
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	17	14	18
Lead	ppm	ASTM D5185m	>40	<1	2	<1
Copper	ppm	ASTM D5185m	>330	3	4	9
Tin	ppm	ASTM D5185m	>15	1	1	1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

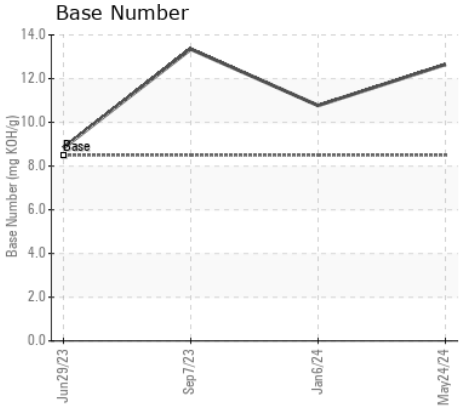
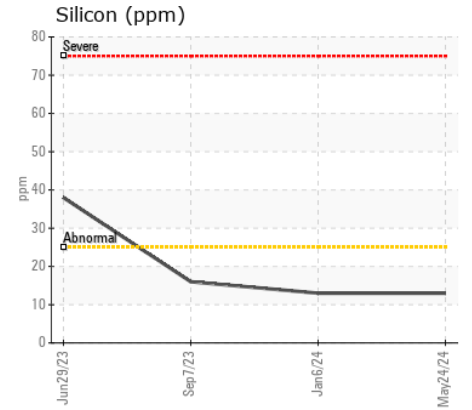
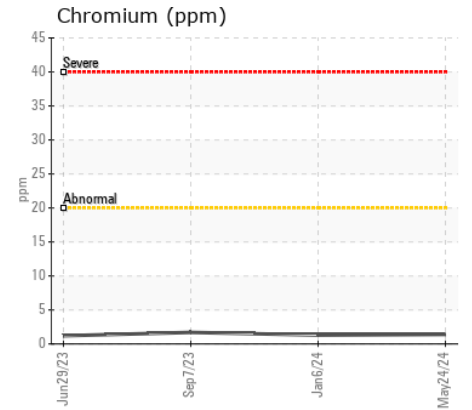
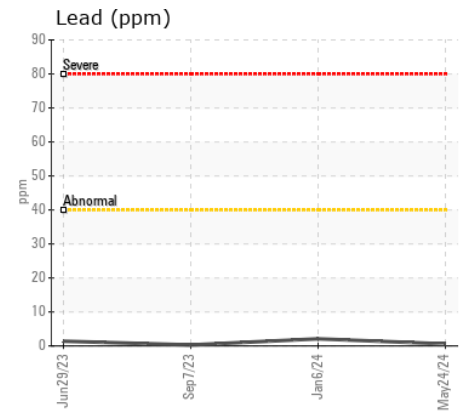
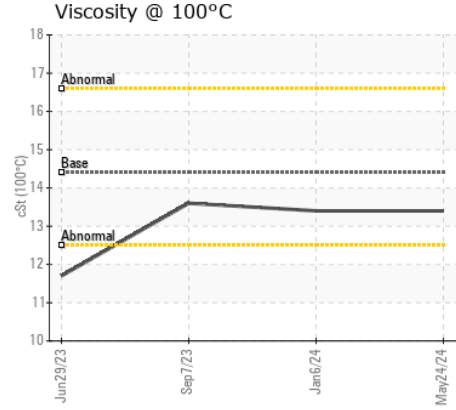
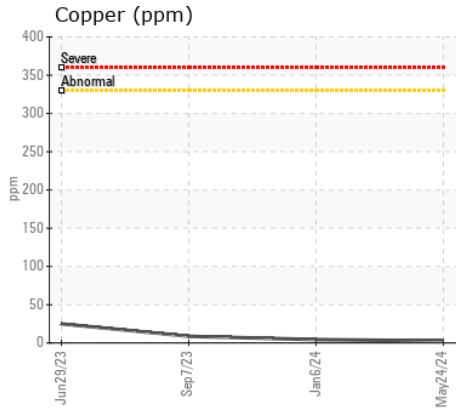
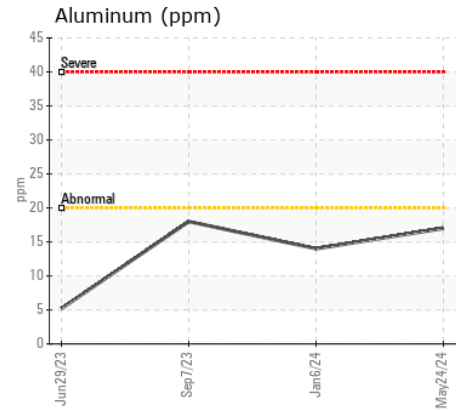
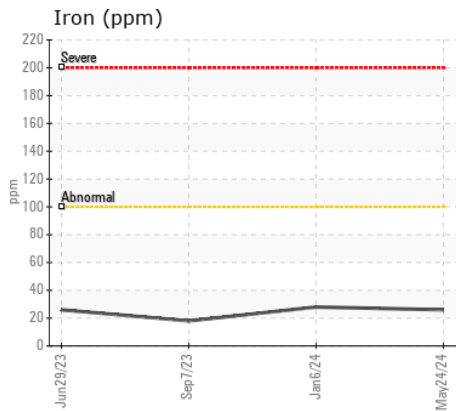
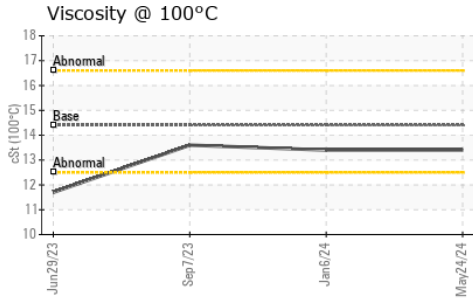
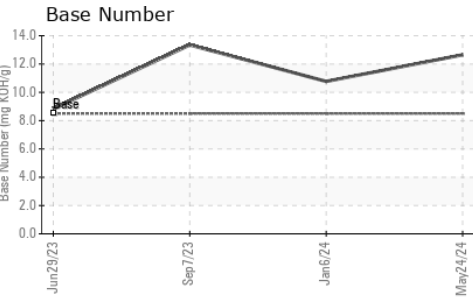
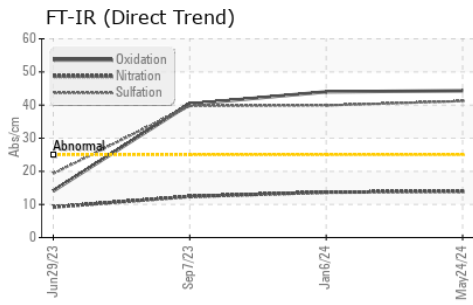
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	13	13	16
Potassium	ppm	ASTM D5185m	>20	25	30	44
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	0.5	0.4	0
Nitration	Abs/cm	*ASTM D7624	>20	13.9	13.7	12.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	41.2	39.9	39.7
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	2	2
Boron	ppm	ASTM D5185m	250	19	<1	21
Barium	ppm	ASTM D5185m	10	2	<1	0
Molybdenum	ppm	ASTM D5185m	100	580	567	513
Manganese	ppm	ASTM D5185m		1	<1	1
Magnesium	ppm	ASTM D5185m	450	996	1027	946
Calcium	ppm	ASTM D5185m	3000	2612	2533	2389
Phosphorus	ppm	ASTM D5185m	1150	1078	1061	982
Zinc	ppm	ASTM D5185m	1350	1297	1270	1236
Sulfur	ppm	ASTM D5185m	4250	8652	7802	8587
Oxidation	Abs/.1mm	*ASTM D7414	>25	44.3	44.0	40.3
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	12.65	10.77	13.35
Visc @ 100°C	cSt	ASTM D445	14.4	13.4	13.4	13.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : HPL0004304 **Received** : 30 May 2024
Lab Number : 06195635 **Tested** : 31 May 2024
Unique Number : 11057758 **Diagnosed** : 01 Jun 2024 - Don Baldrige
Test Package : MOB 2

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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