



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	ATTENTION

Machine Id
KENWORTH 95
 Component
Diesel Engine
 Fluid
SCHAEFFER SUPREME 7000 (11 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013744	KL0013720	KL0013004
Sample Date		Client Info		16 Jun 2024	03 Apr 2024	02 Feb 2024
Machine Age	mls	Client Info		913795	906292	0
Oil Age	mls	Client Info		24000	0	0
Filter Age	mls	Client Info		10000	10000	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Filter Changed		Client Info		Changed	Not Changd	N/A
Sample Status				ATTENTION	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	56	54	46
Chromium	ppm	ASTM D5185m	>6	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	5	4	4
Lead	ppm	ASTM D5185m	>10	4	4	7
Copper	ppm	ASTM D5185m	>150	57	70	92
Tin	ppm	ASTM D5185m	>4	4	5	7
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

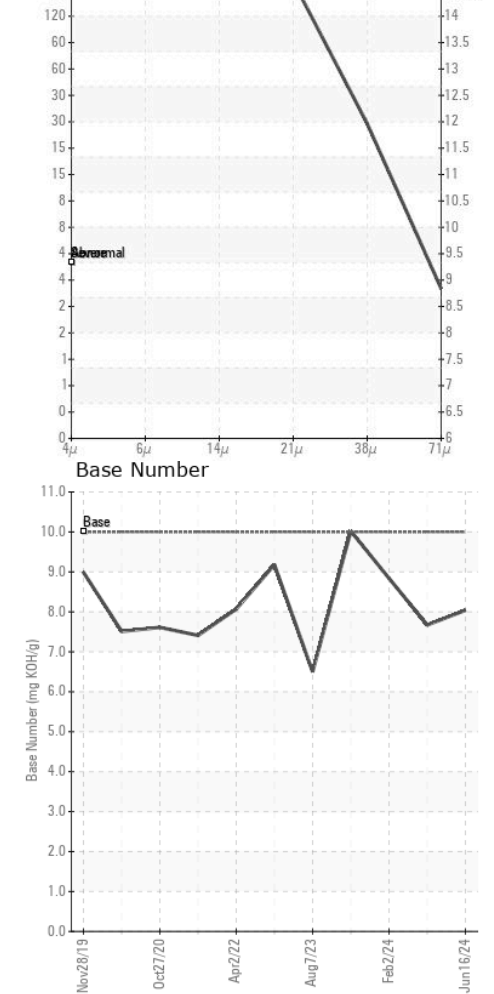
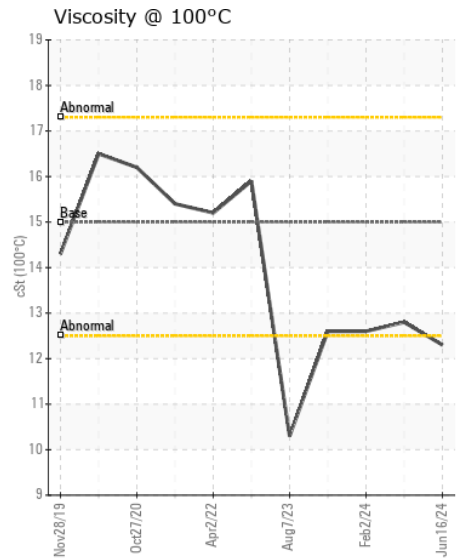
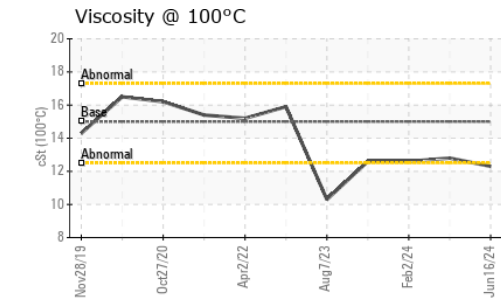
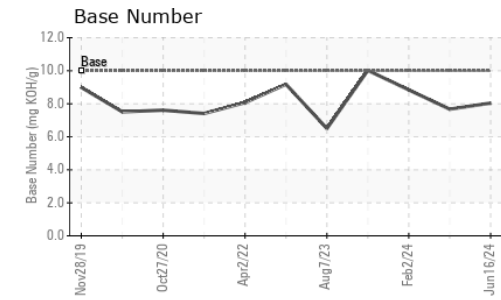
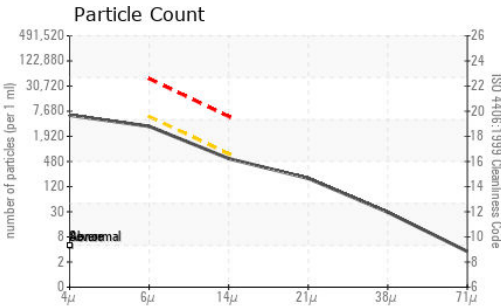
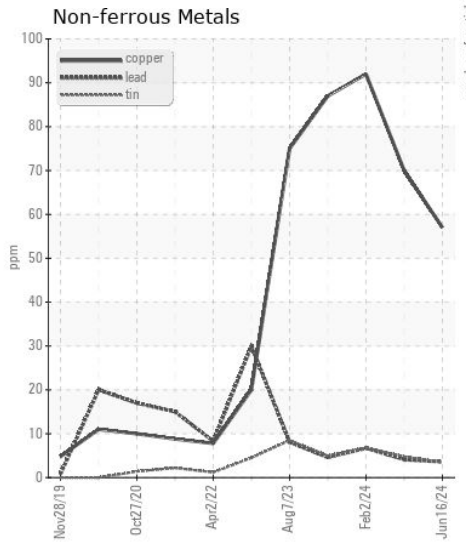
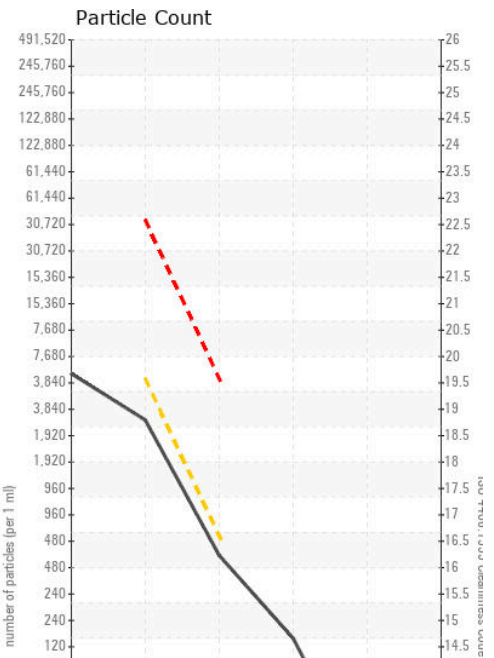
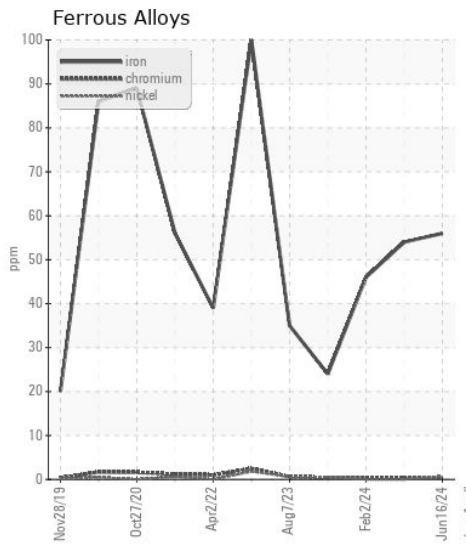
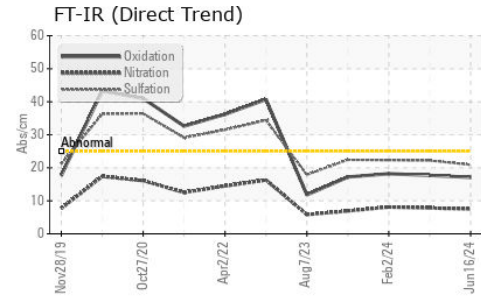
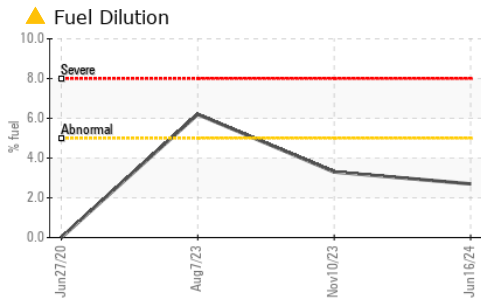
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185m	>20	13	14	16
Potassium	ppm	ASTM D5185m	>20	3	0	0
Fuel	%	ASTM D3524	>5	▲ 2.7	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.8	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	22.2	22.3
Particles >4µm		ASTM D7647		5342	4933	11318
Particles >6µm		ASTM D7647	>5000	2910	2687	● 6166
Particles >14µm		ASTM D7647	>640	495	457	● 1049
Particles >21µm		ASTM D7647	>160	167	154	● 353
Particles >38µm		ASTM D7647	>40	26	24	● 55
Particles >71µm		ASTM D7647	>10	3	2	● 6
Oil Cleanliness		ISO 4406 (c)	>19/16	19/16	19/16	● 20/17
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

Additive levels indicate the addition of a different brand, or type of oil. 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		3	2	2
Boron	ppm	ASTM D5185m		● 191	226	208
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m	50	● 275	292	282
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	1000	● 480	499	448
Calcium	ppm	ASTM D5185m	1400	1417	1470	1495
Phosphorus	ppm	ASTM D5185m	985	920	926	874
Zinc	ppm	ASTM D5185m	1060	986	1004	983
Sulfur	ppm	ASTM D5185m	4000	3793	3292	3357
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	17.7	18.2
Base Number (BN)	mg KOH/g	ASTM D2896	10	8.04	7.67	8.84
Visc @ 100°C	cSt	ASTM D445	15	12.3	12.8	12.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013744
Lab Number : 06211932
Unique Number : 11084796
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel, PrtCount)

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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)