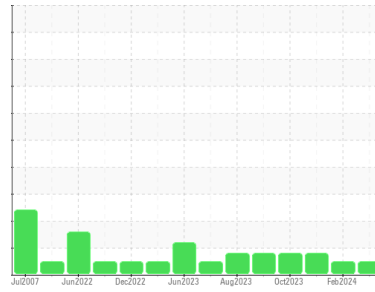




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
KENWORTH 94

Component
Diesel Engine

Fluid
SWEPKO 306 ENGINE OIL SAE 15W40 (12 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		KL0013723	KL0013005	KL0013011
Sample Date	Client Info		27 Mar 2024	02 Feb 2024	10 Nov 2023
Machine Age	mls	Client Info	677587	0	836245
Oil Age	mls	Client Info	35000	0	39646
Oil Changed	Client Info		Not Changed	Not Changed	Changed
Sample Status			NORMAL	NORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	<1.0
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	34	19	32
Chromium	ppm	ASTM D5185m >6	0	0	<1
Nickel	ppm	ASTM D5185m >4	0	0	<1
Titanium	ppm	ASTM D5185m >2	<1	0	<1
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >30	3	4	4
Lead	ppm	ASTM D5185m >10	0	<1	<1
Copper	ppm	ASTM D5185m >150	35	54	▲ 465
Tin	ppm	ASTM D5185m >4	0	<1	<1
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	0	0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	234	284	139
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	320	323	244
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	553	522	439
Calcium	ppm	ASTM D5185m	1564	1382	1493
Phosphorus	ppm	ASTM D5185m	980	962	828
Zinc	ppm	ASTM D5185m	1119	1029	1012
Sulfur	ppm	ASTM D5185m	4552	3561	3634

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	7	7	7
Sodium	ppm	ASTM D5185m	1	<1	0
Potassium	ppm	ASTM D5185m >20	0	0	3

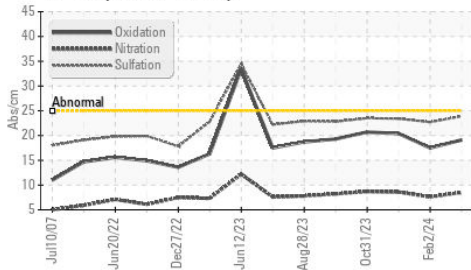
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.3	0.2	0.3
Nitration	Abs/cm	*ASTM D7624 >20	8.5	7.6	8.6
Sulfation	Abs./1mm	*ASTM D7415 >30	23.9	22.7	23.4

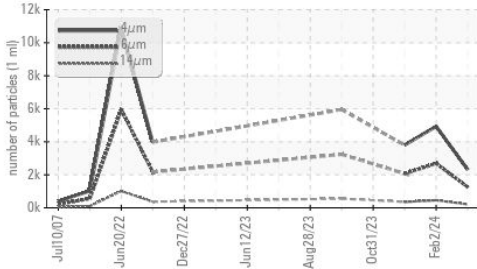


OIL ANALYSIS REPORT

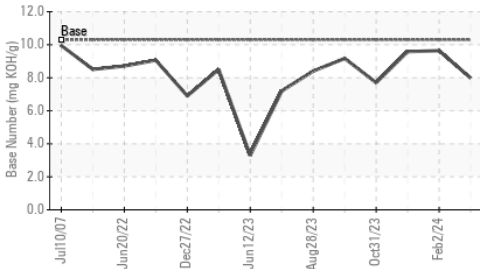
FT-IR (Direct Trend)



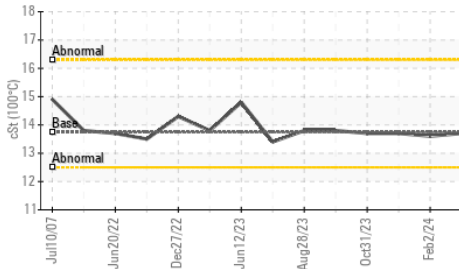
Particle Trend



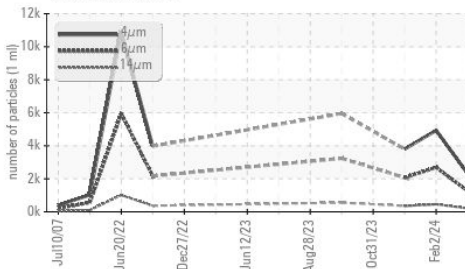
Base Number



Viscosity @ 100°C



Particle Trend



FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		2314	4933	3802
Particles >6µm	ASTM D7647	>5000	1261	2687	2071
Particles >14µm	ASTM D7647	>640	215	457	352
Particles >21µm	ASTM D7647	>160	72	154	119
Particles >38µm	ASTM D7647	>40	11	24	18
Particles >71µm	ASTM D7647	>10	1	2	2
Oil Cleanliness	ISO 4406 (c)	>19/16	17/15	19/16	18/16

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs./1mm *ASTM D7414	>25	19.1	17.5	20.4
Base Number (BN)	mg KOH/g ASTM D2896	10.3	7.98	9.64	9.58

VISUAL

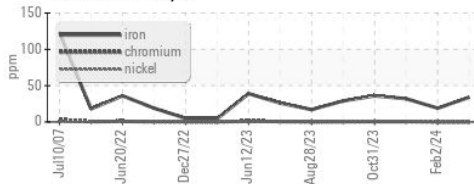
	method	limit/base	current	history1	history2
White Metal	scalar *Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar *Visual	NONE	NONE	NONE	NONE
Precipitate	scalar *Visual	NONE	NONE	NONE	NONE
Silt	scalar *Visual	NONE	NONE	NONE	NONE
Debris	scalar *Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar *Visual	NONE	NONE	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
Free Water	scalar *Visual		NEG	NEG	NEG

FLUID PROPERTIES

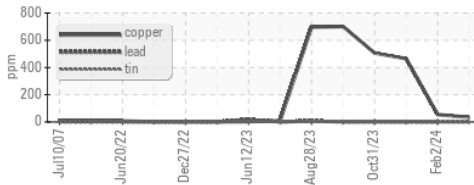
	method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D445	13.74	13.7	13.6	13.7

GRAPHS

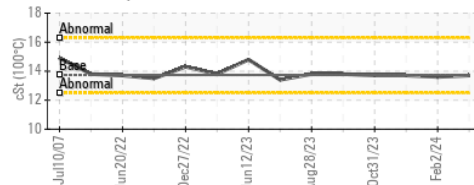
Ferrous Alloys



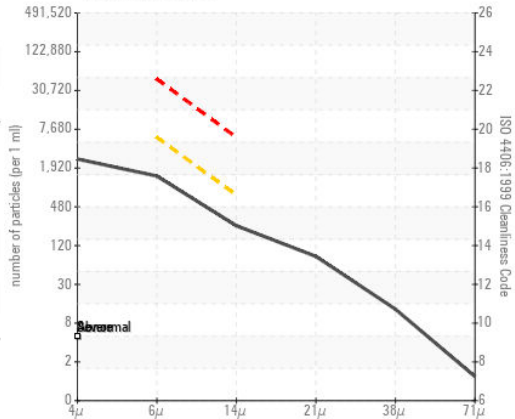
Non-ferrous Metals



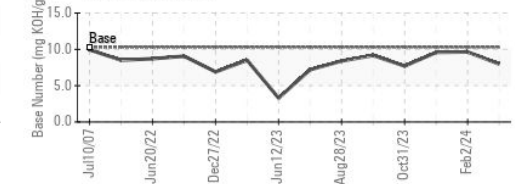
Viscosity @ 100°C



Particle Count



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : KL0013723

Lab Number : **06138736**

Unique Number : 10963544

Test Package : MOB 2 (Additional Tests: PrtCount)

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)

Received : 04 Apr 2024

Tested : 05 Apr 2024

Diagnosed : 06 Apr 2024 - Don Baldrige

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