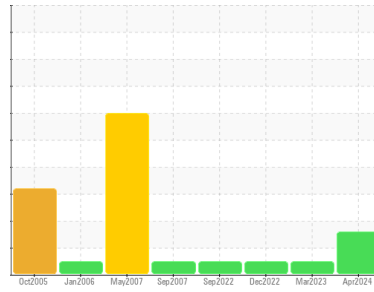




OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
KENWORTH 67

Component
Diesel Engine

Fluid
SCHAEFFER SUPREME 7000 (11 GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. 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		KL0013715	KL0008480	KL0008358
Sample Date	Client Info		10 Apr 2024	08 Mar 2023	30 Dec 2022
Machine Age	mls	Client Info	404361	353114	337374
Oil Age	mls	Client Info	0	15200	11025
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			ABNORMAL	NORMAL	NORMAL

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	12	27	4
Chromium	ppm	ASTM D5185m	>6	<1	1	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	3	4	0
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>150	17	1	1
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		158	12	110
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m	50	319	52	67
Manganese	ppm	ASTM D5185m		<1	1	0
Magnesium	ppm	ASTM D5185m	1000	547	896	638
Calcium	ppm	ASTM D5185m	1400	1560	1152	1517
Phosphorus	ppm	ASTM D5185m	985	993	1008	1018
Zinc	ppm	ASTM D5185m	1060	1074	1241	1241
Sulfur	ppm	ASTM D5185m	4000	3826	3460	4105

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	▲ 20	6	4
Sodium	ppm	ASTM D5185m		9	11	0
Potassium	ppm	ASTM D5185m	>20	8	48	2

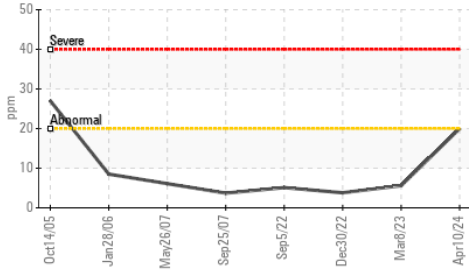
INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.9	9.6	8.8
Sulfation	Abs./1mm	*ASTM D7415	>30	24.6	20.7	19.9

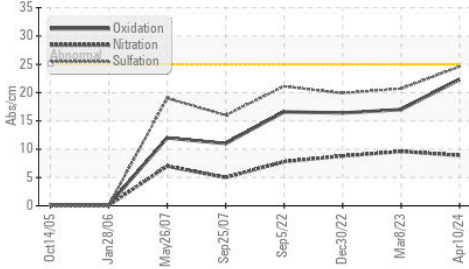


OIL ANALYSIS REPORT

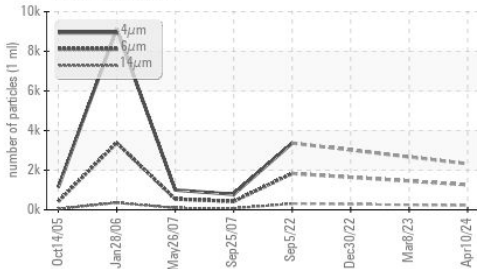
▲ Silicon (ppm)



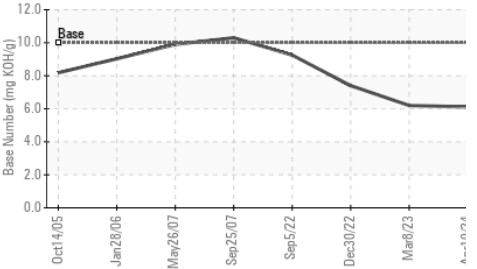
FT-IR (Direct Trend)



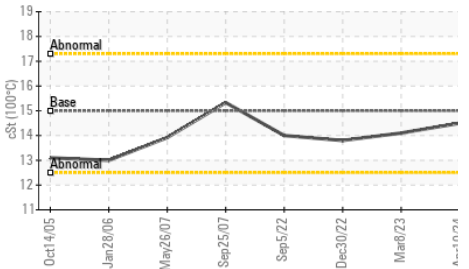
Particle Trend



Base Number



Viscosity @ 100°C



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		2323	---	---
Particles >6µm	ASTM D7647	>5000	1265	---	---
Particles >14µm	ASTM D7647	>640	215	---	---
Particles >21µm	ASTM D7647	>160	73	---	---
Particles >38µm	ASTM D7647	>40	11	---	---
Particles >71µm	ASTM D7647	>10	1	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16	17/15	---	---

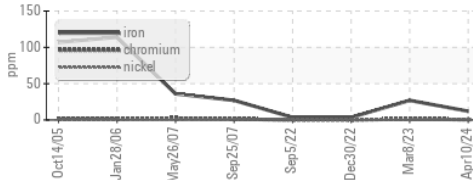
FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm *ASTM D7414	>25	22.3	17.0	16.4
Base Number (BN)	mg KOH/g ASTM D2896	10	6.11	6.2	7.4

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

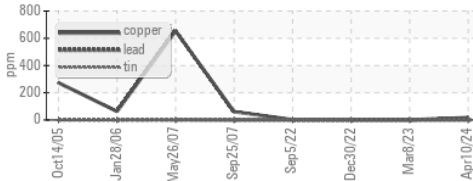
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D445	15	14.5	14.1	13.8

GRAPHS

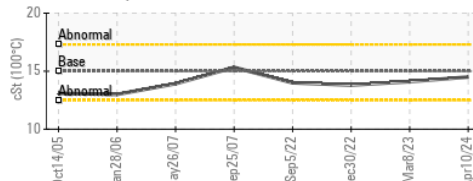
Ferrous Alloys



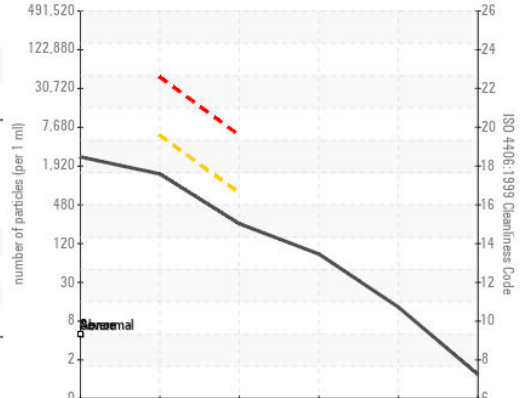
Non-ferrous Metals



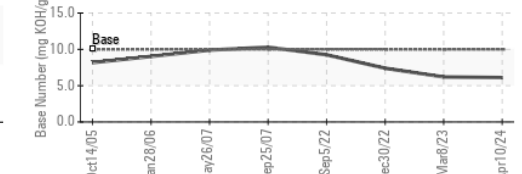
Viscosity @ 100°C



Particle Count



Base Number



Certificate L2367

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

Sample No. : KL0013715

Lab Number : **06153312**

Unique Number : 10983390

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 : 18 Apr 2024

Tested : 23 Apr 2024

Diagnosed : 23 Apr 2024 - Jonathan Hester

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