



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
KENWORTH 67
 Component
Diesel Engine
 Fluid
SCHAEFFER SUPREME 7000 (11 GAL)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	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
Filter Age	mls	Client Info		0	15200	11025
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

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
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

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.

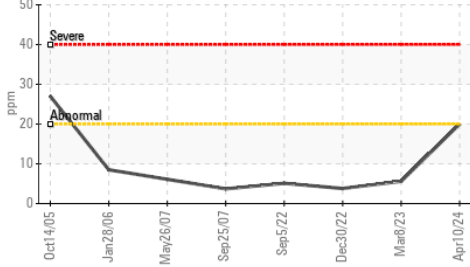
Silicon	ppm	ASTM D5185m	>20	▲ 20	6	4
Potassium	ppm	ASTM D5185m	>20	8	48	2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.9	9.6	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.6	20.7	19.9
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	---	---
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

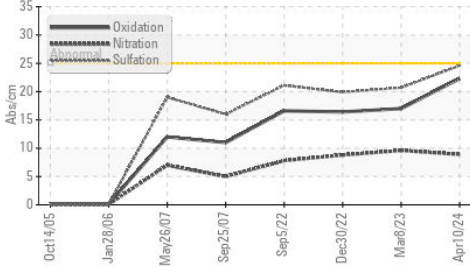
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		9	11	0
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
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
Visc @ 100°C	cSt	ASTM D445	15	14.5	14.1	13.8

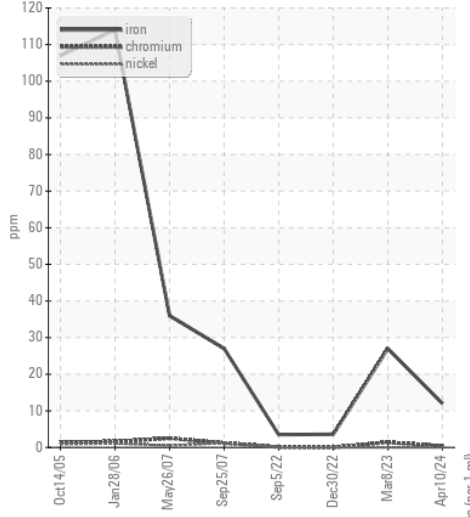
▲ Silicon (ppm)



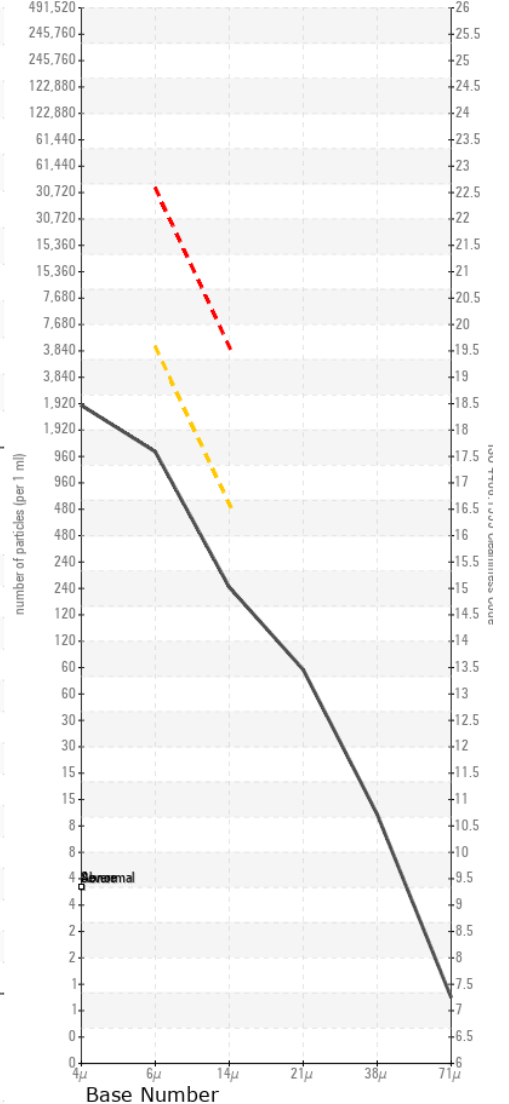
FT-IR (Direct Trend)



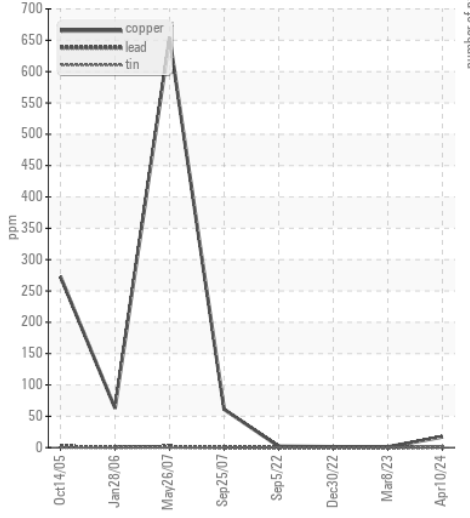
Ferrous Alloys



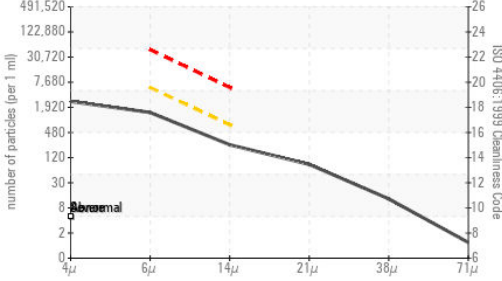
Particle Count



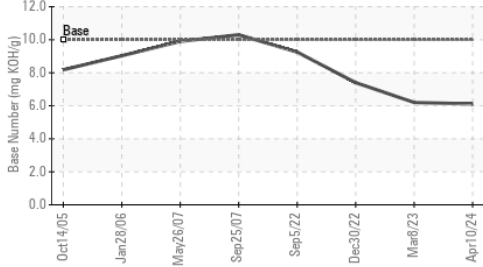
Non-ferrous Metals



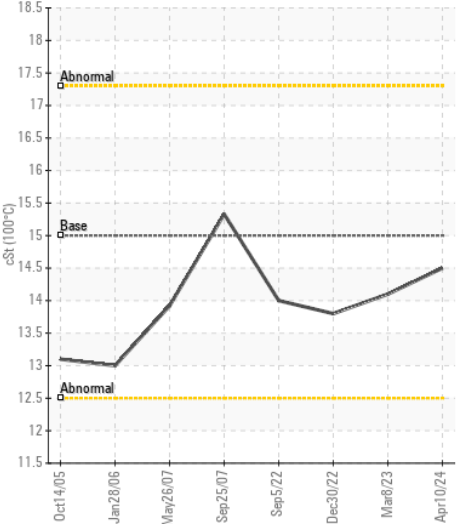
Particle Count



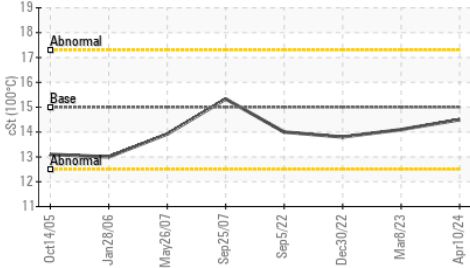
Base Number



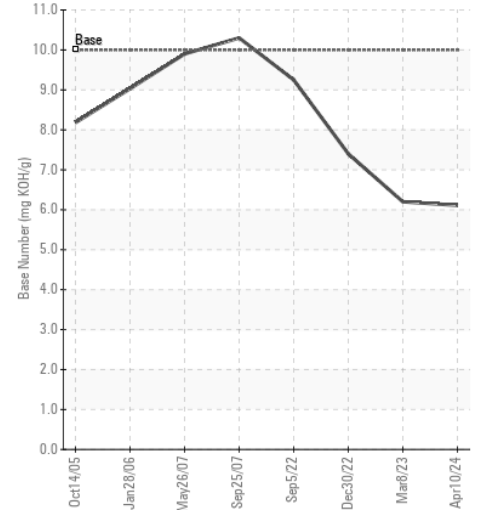
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013715 **Received** : 18 Apr 2024
Lab Number : 06153312 **Tested** : 23 Apr 2024
Unique Number : 10983390 **Diagnosed** : 23 Apr 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: 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)