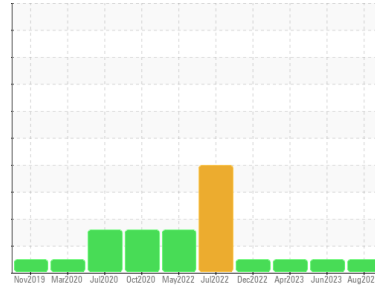




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
KENWORTH 91

Component
Diesel Engine

Fluid
SWEPCO 306 ENGINE OIL SAE 15W40 (11 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.

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	KL0011620	KL0008410	KL0009775	
Sample Date	Client Info	31 Aug 2023	07 Jun 2023	14 Apr 2023	
Machine Age	mls	Client Info	139985	125707	115511
Oil Age	mls	Client Info	24474	10196	12166
Oil Changed	Client Info	Not Changed	Not Changed	Not Changed	
Sample Status		NORMAL	NORMAL	NORMAL	

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	65	20	65
Chromium	ppm ASTM D5185m >20	<1	<1	1
Nickel	ppm ASTM D5185m >2	<1	<1	<1
Titanium	ppm ASTM D5185m >2	0	0	0
Silver	ppm ASTM D5185m >2	0	0	0
Aluminum	ppm ASTM D5185m >25	0	3	<1
Lead	ppm ASTM D5185m >40	4	<1	1
Copper	ppm ASTM D5185m >330	14	6	10
Tin	ppm ASTM D5185m >15	1	<1	<1
Vanadium	ppm ASTM D5185m	<1	<1	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	119	226	87
Barium	ppm ASTM D5185m	0	0	0
Molybdenum	ppm ASTM D5185m	356	295	151
Manganese	ppm ASTM D5185m	<1	1	<1
Magnesium	ppm ASTM D5185m	618	589	883
Calcium	ppm ASTM D5185m	1594	1438	1343
Phosphorus	ppm ASTM D5185m	941	851	1073
Zinc	ppm ASTM D5185m	1164	1102	1335
Sulfur	ppm ASTM D5185m	3571	4447	4130

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	9	8	11
Sodium	ppm ASTM D5185m	3	<1	<1
Potassium	ppm ASTM D5185m >20	0	2	3

INFRA-RED

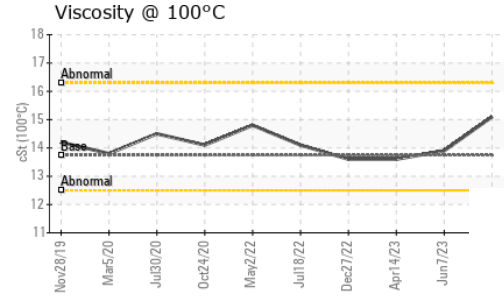
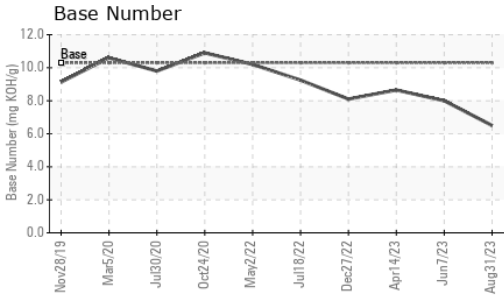
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	1.4	0.6	1.2
Nitration	Abs/cm *ASTM D7624 >20	11.0	8.1	10.8
Sulfation	Abs/.1mm *ASTM D7415 >30	27.8	23.4	24.5

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	23.9	18.6	19.7
Base Number (BN)	mg KOH/g ASTM D2896 10.3	6.5	8	8.65



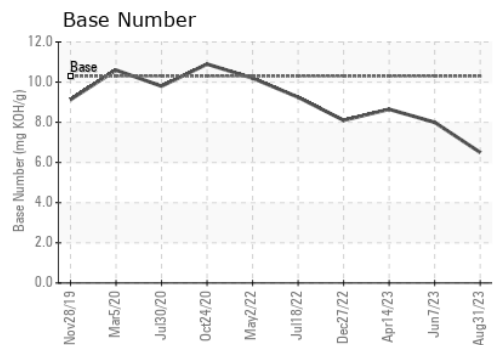
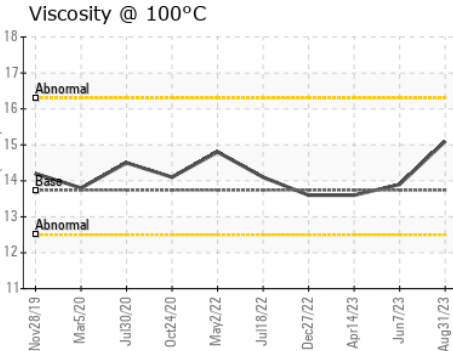
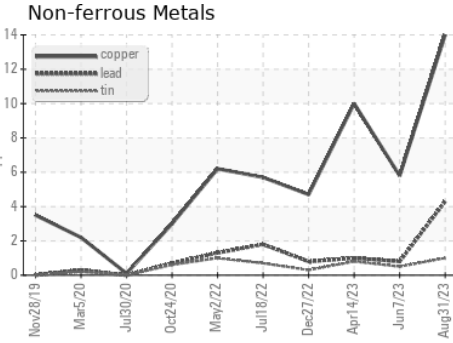
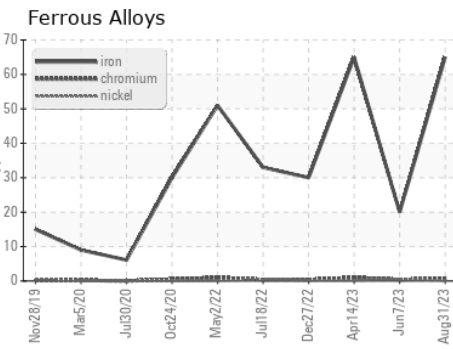
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	13.74	15.1	13.9	13.6

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0011620 **Received** : 02 Oct 2023
Lab Number : **05966911** **Diagnosed** : 04 Oct 2023
Unique Number : 10673462 **Diagnostician** : Jonathan Hester
Test Package : FLEET

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 juan@sileros.com
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Certificate L2367
 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)