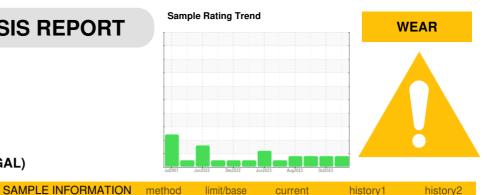


OIL ANALYSIS REPORT



KENWORTH 94

Component **Diesel Engine**

SWEPCO 306 ENGINE OIL SAE 15W40 (12 GAL)

DIAGNOSIS

Recommendation

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

🔺 Wear

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core).

Contamination

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

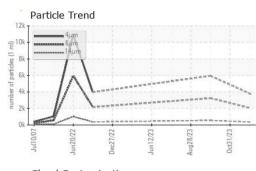
Fluid Condition

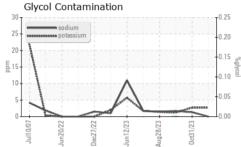
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

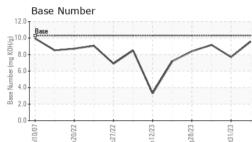
SAMPLE INFORM		method	limit/base	current	nistory i	nistory2
Sample Number		Client Info		KL0013011	KL0011625	KL0009778
Sample Date		Client Info		10 Nov 2023	31 Oct 2023	30 Sep 2023
Machine Age	mls	Client Info		836245	836167	826012
Oil Age	mls	Client Info		39646	39567	29412
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	32	36	29
Chromium	ppm	ASTM D5185m	>6	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	4	4	2
Lead	ppm	ASTM D5185m	>10	<1	1	<1
Copper	ppm	ASTM D5185m	>150	<u> </u>	▲ 506	<u> </u>
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		139	162	224
Barium	ppm	ASTM D5185m		0	6	0
Molybdenum	ppm	ASTM D5185m		244	273	357
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		439	490	550
Calcium	ppm	ASTM D5185m		1493	1604	1461
Phosphorus	ppm	ASTM D5185m		828	1131	1029
Zinc	ppm	ASTM D5185m		1012	1133	1089
Sulfur	ppm	ASTM D5185m		3634	4014	3920
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	7	8	8
O a alla una	ppm	ASTM D5185m		0	1	2
Sodium			>20	3	3	1
Potassium	ppm	ASTM D5185m	20			
	ppm %	*ASTM D5185m	220	NEG	NEG	0.0
Potassium			limit/base		NEG history1	0.0 history2
Potassium Glycol		*ASTM D2982		NEG		
Potassium Glycol INFRA-RED	%	*ASTM D2982 method	limit/base	NEG current	history1	history2

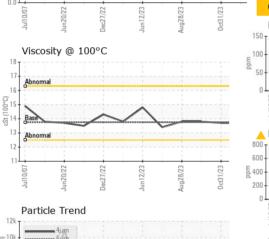


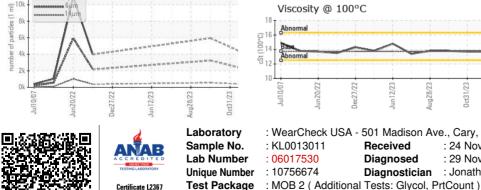
OIL ANALYSIS REPORT



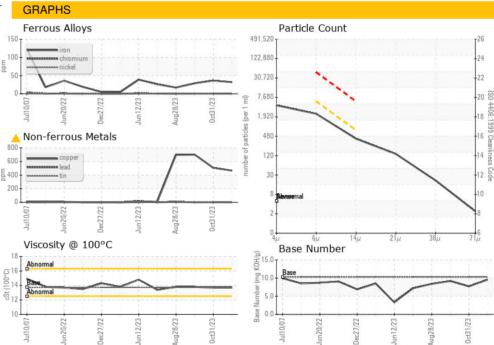








FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		3802		5951
Particles >6µm		ASTM D7647	>5000	2071		3242
Particles >14µm		ASTM D7647	>640	352		552
Particles >21µm		ASTM D7647	>160	119		186
Particles >38µm		ASTM D7647	>40	18		29
Particles >71µm		ASTM D7647	>10	2		3
Oil Cleanliness		ISO 4406 (c)	>19/16	18/16		19/16
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.4	20.7	19.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	9.58	7.7	9.17
VISUAL		method	limit/base	current	history1	history2
		mounou	in the babe	Guirent	Thotory	Thotor y 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
White Metal Yellow Metal	scalar scalar					
		*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual *Visual	NONE NONE	NONE NONE	NONE	NONE
Yellow Metal Precipitate	scalar scalar	*Visual *Visual *Visual	NONE NONE NONE	NONE NONE NONE	NONE NONE NONE	NONE NONE NONE
Yellow Metal Precipitate Silt	scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NONE NONE NONE	NONE NONE NONE NONE	NONE NONE NONE NONE	NONE NONE NONE NONE
Yellow Metal Precipitate Silt Debris	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE	NONE NONE NONE NONE NONE	NONE NONE NONE NONE	NONE NONE NONE NONE NONE
Yellow Metal Precipitate Silt Debris Sand/Dirt	scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE NONE	NONE NONE NONE NONE NONE	NONE NONE NONE NONE NONE	NONE NONE NONE NONE NONE
Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE NONE NORE	NONE NONE NONE NONE NONE NONE	NONE NONE NONE NONE NONE NONE NORML	NONE NONE NONE NONE NONE NORML
Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE NONE NORML NORML	NONE NONE NONE NONE NONE NORML NORML	NONE NONE NONE NONE NONE NORML NORML	NONE NONE NONE NONE NONE NORML NORML
Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE NONE NORML NORML	NONE NONE NONE NONE NONE NORML NORML NEG	NONE NONE NONE NONE NONE NONE NORML NORML NEG	NONE NONE NONE NONE NONE NORML NORML NEG



: 24 Nov 2023

: 29 Nov 2023

Diagnostician : Jonathan Hester

JIMENEZ CUSTOM HARVESTING, INC. 1000 WEST BRADY CLOVIS, NM US 88101 Contact: JOHN JIMENEZ juan@sileros.com T: (505)769-2786 F: (505)769-1817

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.

: KL0013011

:06017530

: 10756674

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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

Received

Diagnosed

Certificate L2367

Contact/Location: JOHN JIMENEZ - JIMCLO