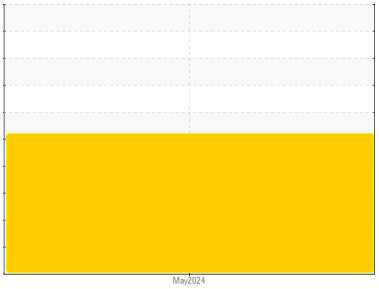
PROBLEM SUMMARY

Sample Rating Trend

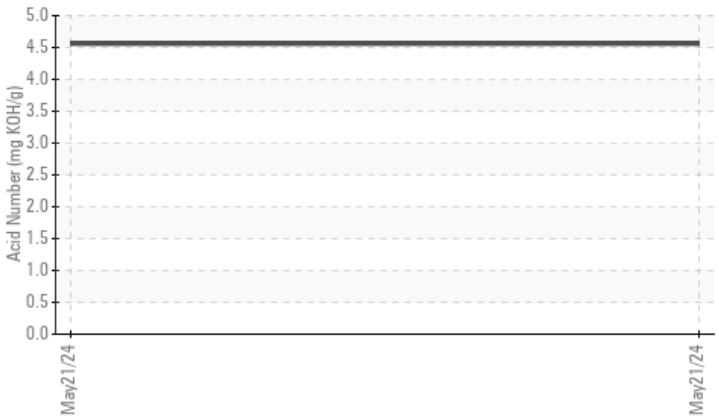


DEGRADATION

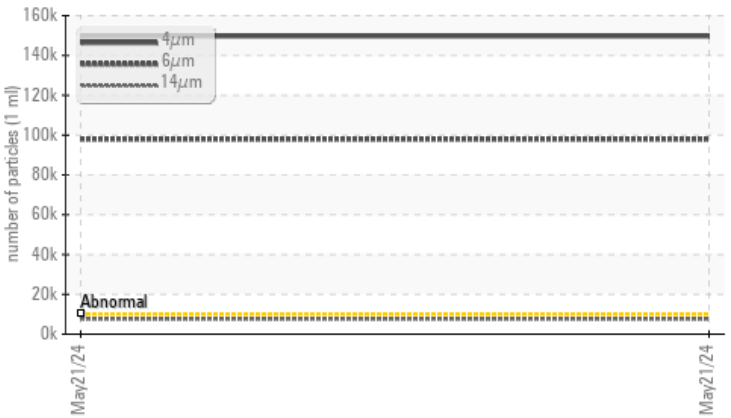
Machine Id
KENWORTH M-45
Component
Transmission (Manual)
Fluid
{not provided} (4 GAL)

COMPONENT CONDITION SUMMARY

▲ Acid Number



▲ Particle Trend



RECOMMENDATION

The fluid change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	---	---
Particles >4µm		ASTM D7647	>10000	▲ **149690**	---	---
Particles >6µm		ASTM D7647	>2500	▲ **97936**	---	---
Particles >14µm		ASTM D7647	>320	▲ **7625**	---	---
Particles >21µm		ASTM D7647	>80	▲ **1132**	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **24/24/20**	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		▲ **4.56**	---	---

Customer Id: PETABE
Sample No.: PE0003251
Lab Number: 06194595
Test Package: CONST

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

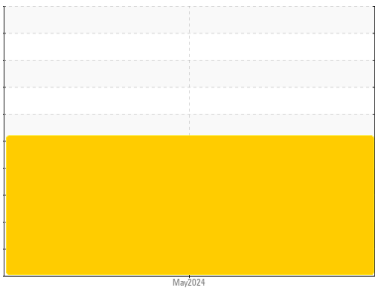
RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION

Machine Id
KENWORTH M-45
Component
Transmission (Manual)
Fluid
{not provided} (4 GAL)

DIAGNOSIS

▲ Recommendation
The fluid change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear
All component wear rates are normal.

▲ Contamination
There is a high amount of particulates present in the fluid.

▲ Fluid Condition
The AN level is above the recommended limit. The fluid is no longer serviceable.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PE0003251**	---	---
Sample Date		Client Info		**21 May 2024**	---	---
Machine Age	mls	Client Info		**240500**	---	---
Oil Age	mls	Client Info		**240500**	---	---
Oil Changed		Client Info		**Changed**	---	---
Sample Status				**SEVERE**	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	**NEG**	---	---

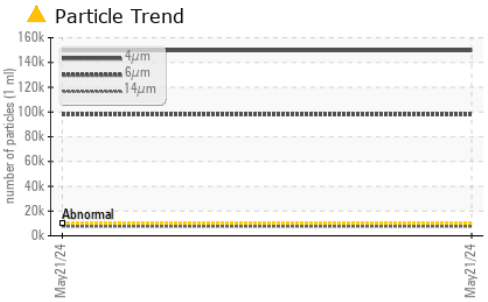
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>95	**63**	---	---
Iron	ppm	ASTM D5185m	>200	**134**	---	---
Chromium	ppm	ASTM D5185m	>5	**2**	---	---
Nickel	ppm	ASTM D5185m	>5	**<1**	---	---
Titanium	ppm	ASTM D5185m		**2**	---	---
Silver	ppm	ASTM D5185m	>7	**1**	---	---
Aluminum	ppm	ASTM D5185m	>25	**15**	---	---
Lead	ppm	ASTM D5185m	>45	**<1**	---	---
Copper	ppm	ASTM D5185m	>225	**26**	---	---
Tin	ppm	ASTM D5185m	>10	**<1**	---	---
Vanadium	ppm	ASTM D5185m		**<1**	---	---
Cadmium	ppm	ASTM D5185m		**<1**	---	---

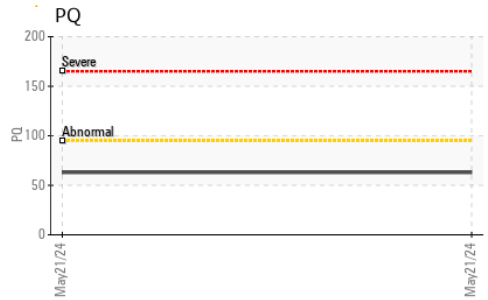
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**529**	---	---
Barium	ppm	ASTM D5185m		**150**	---	---
Molybdenum	ppm	ASTM D5185m		**2**	---	---
Manganese	ppm	ASTM D5185m		**4**	---	---
Magnesium	ppm	ASTM D5185m		**8**	---	---
Calcium	ppm	ASTM D5185m		**98**	---	---
Phosphorus	ppm	ASTM D5185m		**2081**	---	---
Zinc	ppm	ASTM D5185m		**31**	---	---
Sulfur	ppm	ASTM D5185m		**887**	---	---

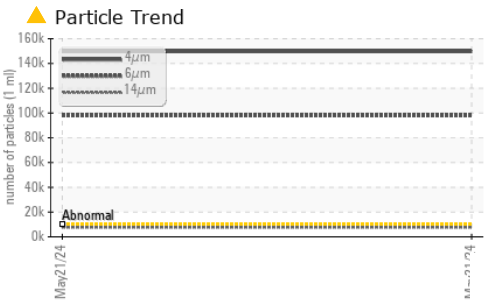
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	**49**	---	---
Sodium	ppm	ASTM D5185m		**7**	---	---
Potassium	ppm	ASTM D5185m	>20	**6**	---	---

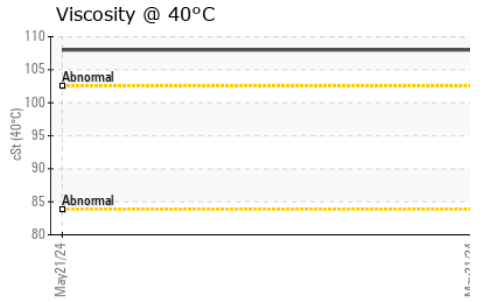
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ **149690**	---	---
Particles >6µm		ASTM D7647	>2500	▲ **97936**	---	---
Particles >14µm		ASTM D7647	>320	▲ **7625**	---	---
Particles >21µm		ASTM D7647	>80	▲ **1132**	---	---
Particles >38µm		ASTM D7647	>20	**14**	---	---
Particles >71µm		ASTM D7647	>4	**2**	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **24/24/20**	---	---

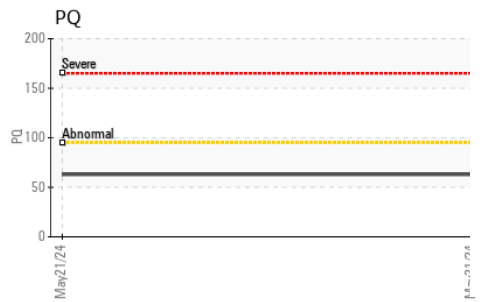
OIL ANALYSIS REPORT











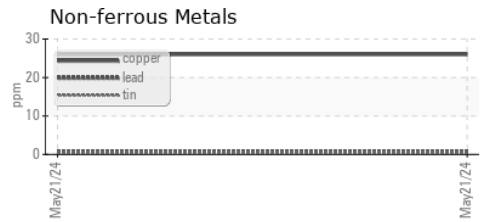
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		▲ **4.56**	---	---

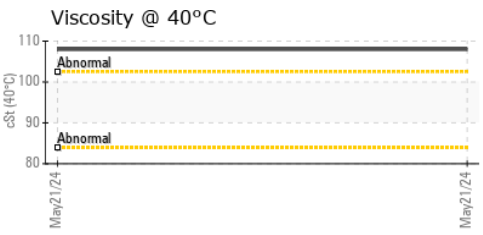
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**LIGHT**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	---	---
Appearance	scalar	*Visual	NORML	**NORML**	---	---
Odor	scalar	*Visual	NORML	**NORML**	---	---
Emulsified Water	scalar	*Visual	>0.1	**NEG**	---	---
Free Water	scalar	*Visual		**NEG**	---	---

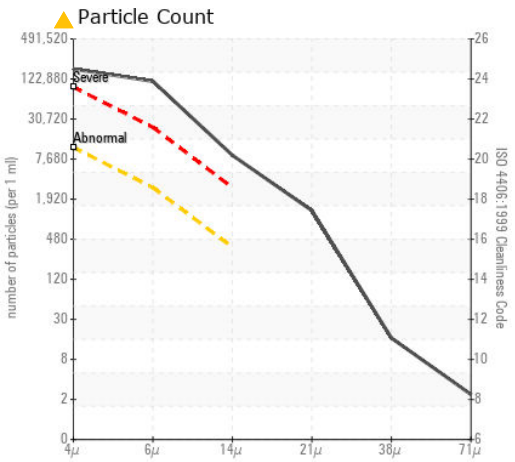
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**108**	---	---

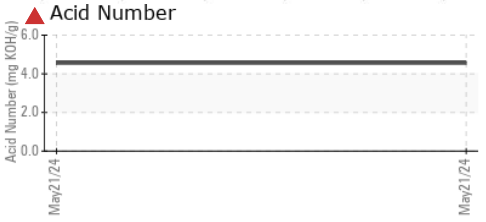
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

GRAPHS









Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PE0003251 **Received** : 29 May 2024
Lab Number : 06194595 **Tested** : 30 May 2024
Unique Number : 11056718 **Diagnosed** : 31 May 2024 - Don Baldridge
Test Package : CONST (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN)

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)

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