



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	SEVERE

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

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.

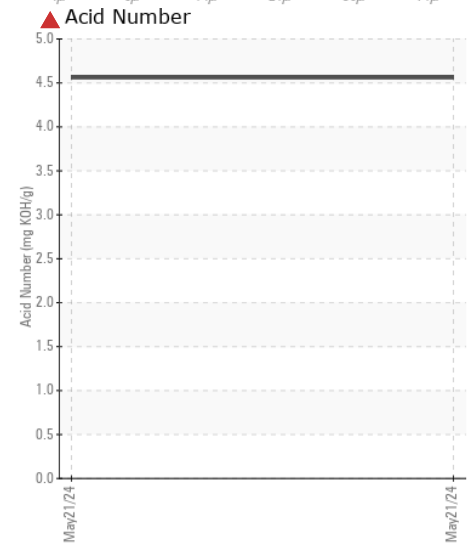
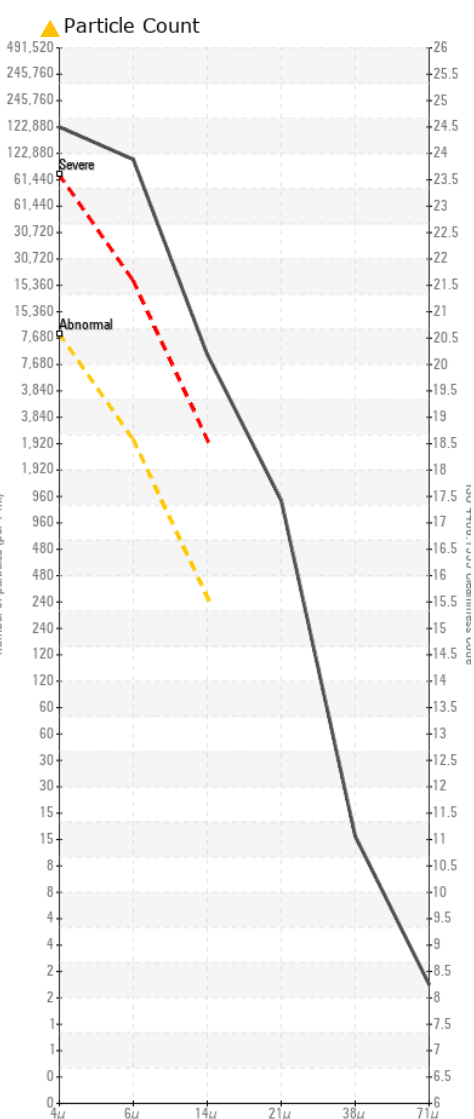
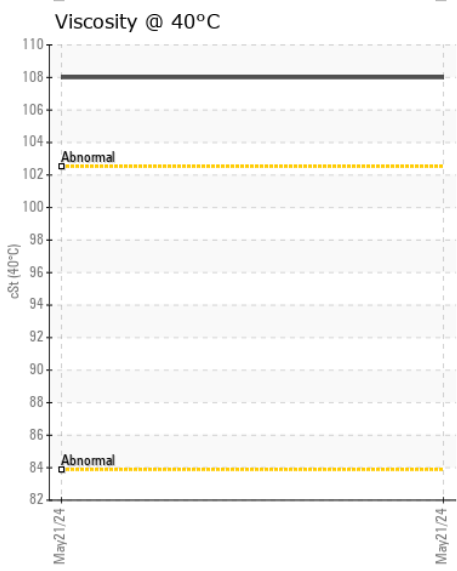
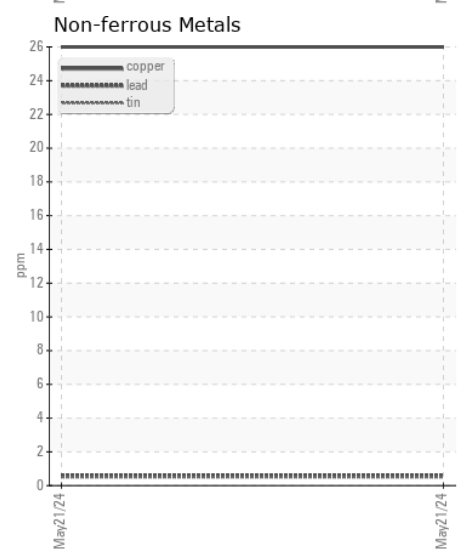
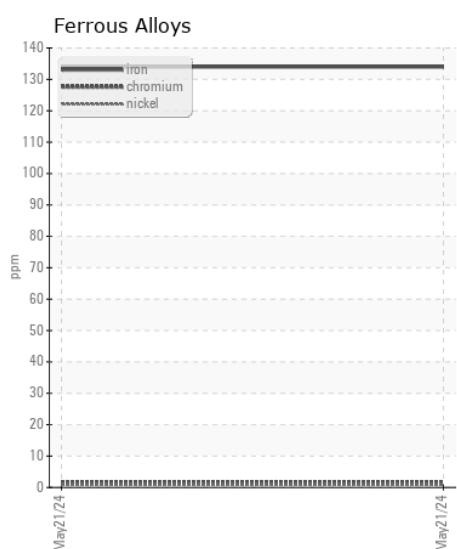
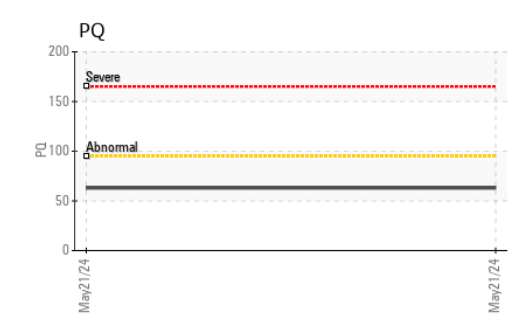
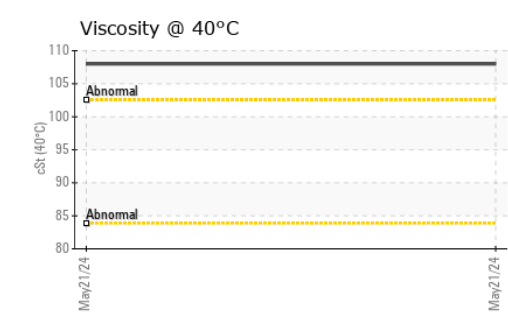
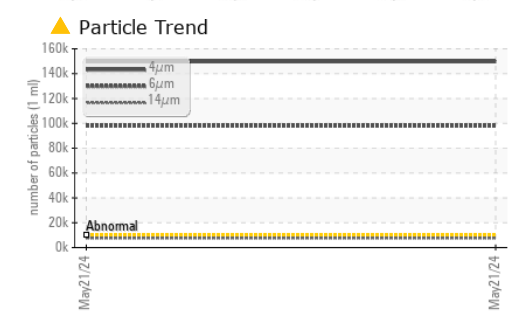
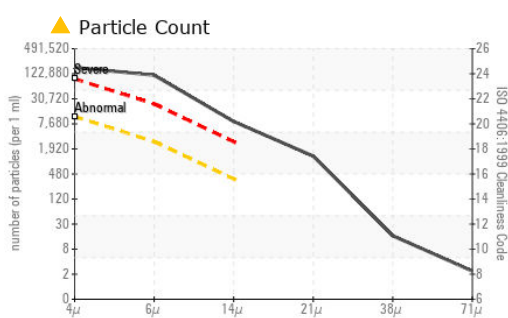
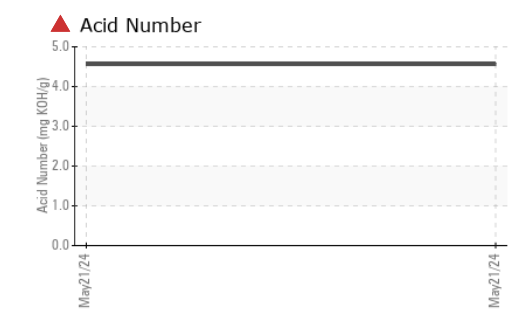
CONTAMINATION

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.

Test	UOM	Method	Limit/Abn	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	---	---
Filter Age	mls	Client Info		240500	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---
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	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>125	49	---	---
Potassium	ppm	ASTM D5185m	>20	6	---	---
Water		WC Method	>0.1	NEG	---	---
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	---	---
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	---	---
Sodium	ppm	ASTM D5185m		7	---	---
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	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		▲ 4.56	---	---
Visc @ 40°C	cSt	ASTM D445		108	---	---



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 Baldrige
Test Package : CONST (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN)
 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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