OIL ANALYSIS REPORT

WEAR CONTAMINATION FLUID CONDITION

SEVERE ABNORMAL ABNORMAL

Machine Id

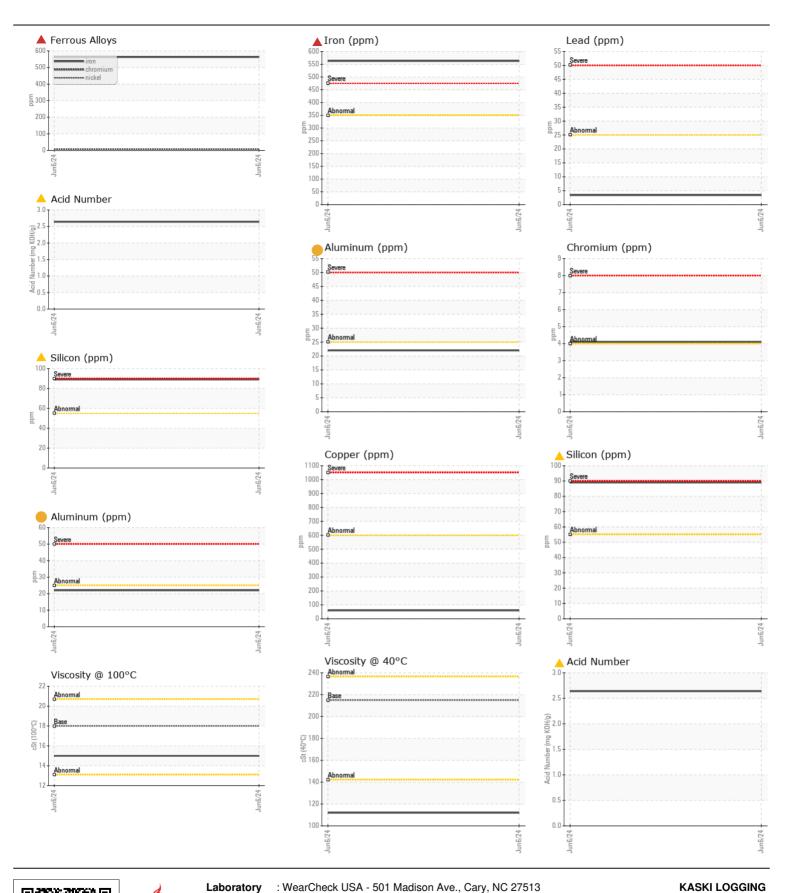
KENWORTH W900 TRK 8 (S/N 683765)

Transmission

SAE 50W (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	Lioton/2
We advise that you check all areas where dirt can enter the system. The fluid change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.	Sample Number	UOIVI	Client Info	LIIIII/AUII	TR06218405		History2
	Sample Date		Client Info		06 Jun 2024		
	Machine Age	mls	Client Info		612900		
	Oil Age	mls	Client Info		0		
	Filter Age	mls	Client Info				
	Oil Changed	11115	Client Info		0 Changed		
			Client Info		Changed N/A		
	Filter Changed		Ciletti IIIIO		SEVERE		
	Sample Status						
WEAR	Iron	ppm	ASTM D5185m	>350	▲ 563		
Gear wear is indicated.	Chromium	ppm	ASTM D5185m	>4	4		
	Nickel	ppm	ASTM D5185m	>2	<1		
	Titanium	ppm	ASTM D5185m	>2	2		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>25	22		
	Lead	ppm	ASTM D5185m	>25	3		
	Copper	ppm	ASTM D5185m	>600	60		
	Tin	ppm	ASTM D5185m	>4	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAINIATION							
CONTAMINATION	Silicon	ppm	ASTM D5185m		▲ 89		
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Potassium	ppm	ASTM D5185m		16		
	Water		WC Method		NEG		
	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		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		34		
The AN level is above the recommended limit.	Boron	ppm	ASTM D5185m		189		
	Barium	ppm	ASTM D5185m		20		
	Molybdenum	ppm	ASTM D5185m		7		
	Manganese	ppm	ASTM D5185m		14		
	Magnesium	ppm	ASTM D5185m		29		
	Calcium	ppm	ASTM D5185m		222		
	Phosphorus	ppm	ASTM D5185m		1151		
	Zinc	ppm	ASTM D5185m		141		
	Sulfur	ppm	ASTM D5185m		880		
	Acid Number (AN)	mg KOH/g			2.64		
	Visc @ 40°C	cSt	ASTM D445	215	112		
	Visc @ 100°C	cSt	ASTM D445	18.0	15.0		
					1		

Viscosity Index (VI) Scale ASTM D2270 91

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Laboratory Sample No. Lab Number : 06218405 Unique Number : 11096602

: TR06218405

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

Diagnosed Test Package : MOB 2 (Additional Tests: Glycol, KV100, VI)

: 24 Jun 2024 : 26 Jun 2024

: 26 Jun 2024 - Jonathan Hester

22411 HE CEDAR CREEK RD AMBOY, WA US 98601

Contact: NATHAN BYRD

To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - 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)

T:

F: