OIL ANALYSIS REPORT

WEAR CONTAMINATION FLUID CONDITION **ATTENTION ABNORMAL NORMAL**

Machine Id

KENWORTH W900 TRK 8 (S/N 683765)

Rear Differential

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		TR06218409		
We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Date		Client Info		06 Jun 2024		
	Machine Age	mls	Client Info		612900		
	Oil Age	mls	Client Info		0		
	Filter Age	mls	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
VEAR	Iron	ppm	ASTM D5185m	>500	416		
	Chromium	ppm	ASTM D5185m		<1		
Aluminum ppm levels are noted. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m		4		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>25	9 39		
	Lead	ppm	ASTM D5185m	>25	1		
	Copper	ppm	ASTM D5185m	>100	2		
	Tin	ppm	ASTM D5185m	>10	0		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>75	106		
Elemental levels of silicon (Si) and aluminum (AI) indicate aluminasilicate (coarse dirt) ingress.	Potassium	ppm	ASTM D5185m		8		
	Water		WC Method	>.2	NEG		
	Silt	scalar	*Visual	NONE	NONE		
	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	>.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>170	9		
	Boron	ppm	ASTM D5185m	400	123		
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		4		
	Molybdenum	ppm	ASTM D5185m	12	2		
	Manganese	ppm	ASTM D5185m		5		
	Magnesium	ppm	ASTM D5185m	12	10		
	Calcium	ppm	ASTM D5185m	150	107		
	Phosphorus	ppm	ASTM D5185m	1650	970		
	Zinc	ppm	ASTM D5185m		76		
	Sulfur	ppm	ASTM D5185m		19282		
	Acid Number (AN)	mg KOH/g	ASTM D8045	2.00	1.28		

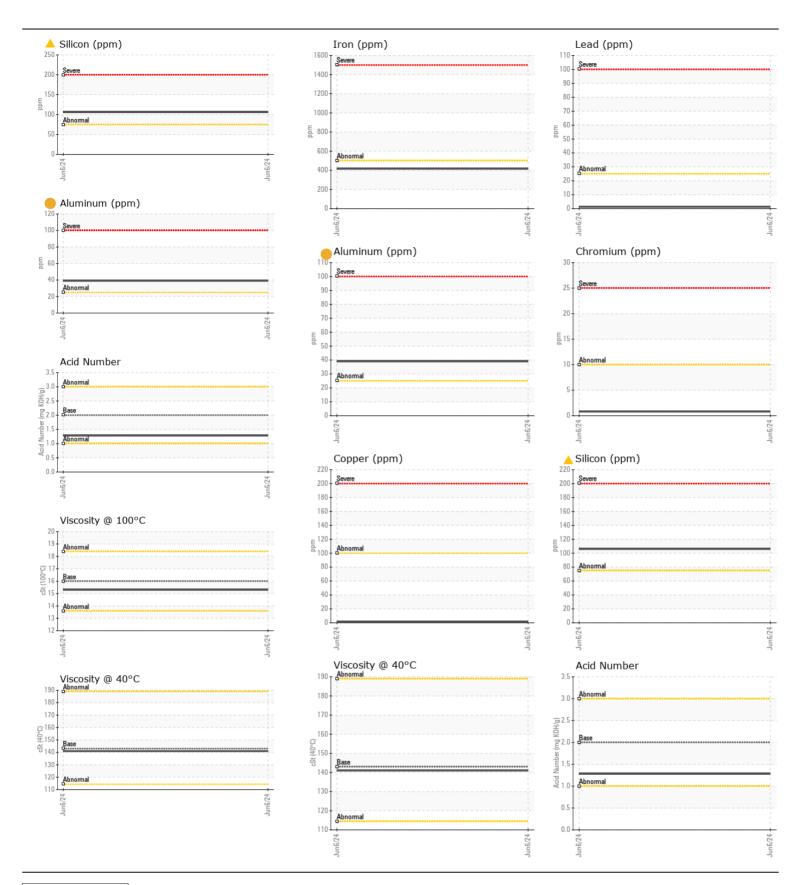
141

15.3 110

Viscosity Index (VI) Scale ASTM D2270 117

ASTM D445 16.0

Visc @ 100°C cSt





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TR06218409 Lab Number : 06218409

Unique Number: 11096606

Received **Tested** Diagnosed Test Package : MOB 2 (Additional Tests: KV100, VI)

: 24 Jun 2024 : 25 Jun 2024

: 25 Jun 2024 - Sean Felton

KASKI LOGGING 22411 HE CEDAR CREEK RD AMBOY, WA US 98601

Contact: NATHAN BYRD

Certificate L2367 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)

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