

Machine Id **KENWORTH W900 TRK 8 (S/N 683765)** Component **Front Differential** Fluid Fluid

GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

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All component wear rates are normal.

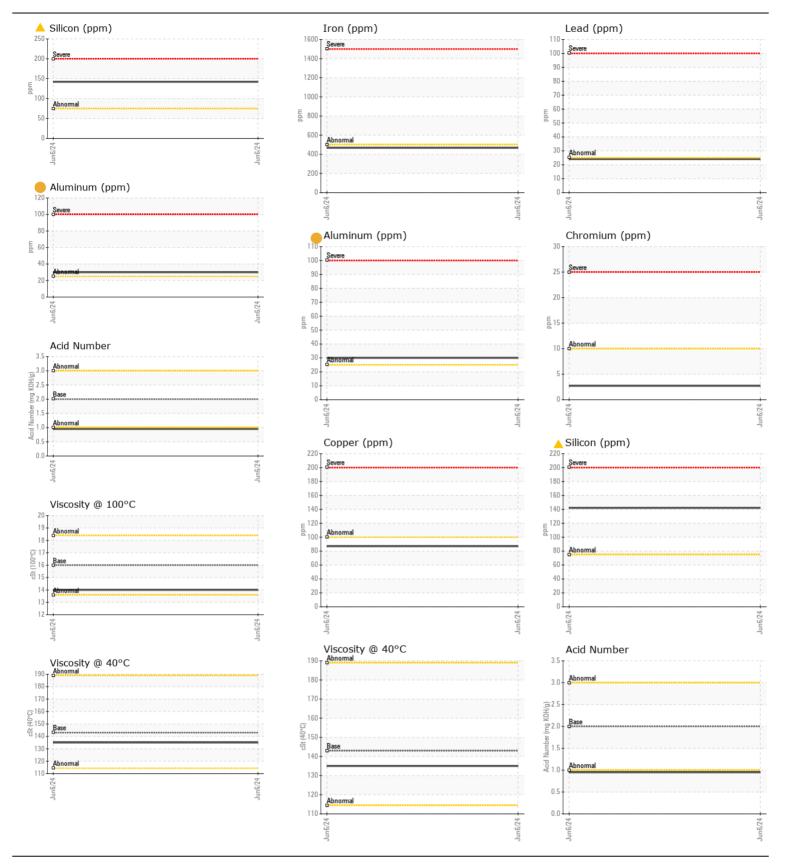
CONTAMINATION

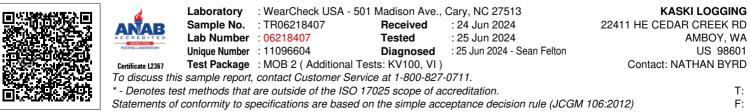
Elemental levels of silicon (Si) and aluminum (AI) indicate aluminasilicate (coarse dirt) ingress.

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

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	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		TR06218407		
	Sample Date		Client Info		06 Jun 2024		
	Machine Age	mls	Client Info		203286		
	Oil Age	mls	Client Info		203286		
	Filter Age	mls	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
	Iron	ppm	ASTM D5185m	>500	467		
	Chromium	ppm	ASTM D5185m	>10	3		
	Nickel	ppm	ASTM D5185m	>10	1		
	Titanium	ppm	ASTM D5185m		2		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>25	<mark>)</mark> 30		
	Lead	ppm	ASTM D5185m	>25	24		
	Copper	ppm	ASTM D5185m	>100	87		
	Tin	ppm	ASTM D5185m	>10	6		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Silicon		ASTM D5185m	>75	142		
	Potassium	ppm	ASTM D5185m	>20	7		
	Water	ppm	WC Method	>20	, NEG		
	Silt	scalar	*Visual	>.2 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		
		Scalai	visual	>.∠	NEG		
	Sodium	ppm	ASTM D5185m	>170	45		
	Boron	ppm	ASTM D5185m	400	66		
	Barium	ppm	ASTM D5185m	200	7		
	Molybdenum	ppm	ASTM D5185m	12	<1		
	Manganese	ppm	ASTM D5185m		12		
	Magnesium	ppm	ASTM D5185m	12	10		
	Calcium	ppm	ASTM D5185m	150	57		
	Phosphorus	ppm	ASTM D5185m	1650	913		
	Zinc	ppm	ASTM D5185m	125	153		
	Sulfur	ppm	ASTM D5185m	22500	22543		
	Acid Number (AN)	mg KOH/g	ASTM D8045	2.00	0.95		
	Visc @ 40°C	cSt	ASTM D445	143	135		
	Visc @ 100°C	cSt	ASTM D445	16.0	14.0		
	Viscosity Index (VI)	Scale	ASTM D2270	117	100		
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Contact/Location: NATHAN BYRD - KASAMB Page 2 of 2