

OIL ANALYSIS REPORT

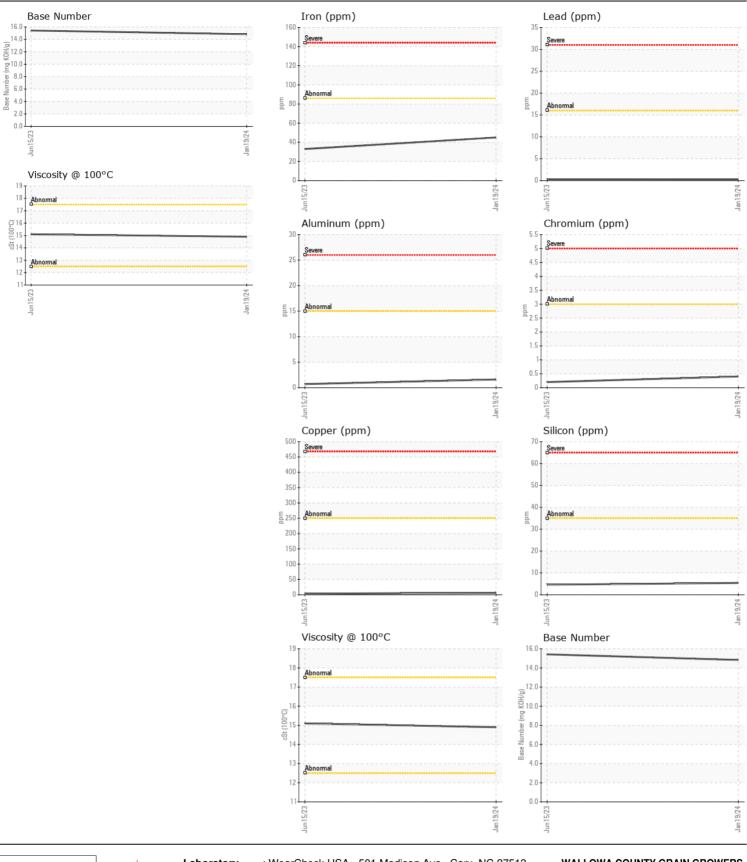
## Machine Id KENWORTH 9800 274 Component Diesel Engine Fluid TRC MOLY XL PRO-SPEC IV XP 15W40 (--- GAL)

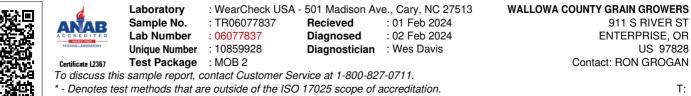
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06077837	TR05879064	
	Sample Date		Client Info		19 Jan 2024	15 Jun 2023	
	Machine Age	mls	Client Info		19291	0	
	Oil Age	mls	Client Info		5753	6000	
	Filter Age	mls	Client Info		5753	0	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	N/A	
	Sample Status				NORMAL	NORMAL	
WEAR Metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185m	>86	45	33	
	Chromium	ppm	ASTM D5185m	>3	<1	<1	
	Nickel	ppm	ASTM D5185m		<1	<1	
	Titanium	ppm	ASTM D5185m	>2	<1	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		2	<1	
	Lead	ppm	ASTM D5185m		- <1	<1	
	Copper	ppm	ASTM D5185m		6	4	
	Tin	ppm	ASTM D5185m		<1	<1	
	Vanadium	ppm	ASTM D5185m	~ _	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Silicon			. 05	E	E	
CONTAMINATION		ppm	ASTM D5185m		5	5	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3	2	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	<u> </u>	WC Method	0	NEG	NEG	
	Soot %	%	*ASTM D7844		0.7	0.6	
	Nitration	Abs/cm	*ASTM D7624	>20	9.1	8.2	
	Sulfation	Abs/.1mm	*ASTM D7415		18.9	18.6	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor Emulsified Water	scalar	*Visual	NORML >0.2	NORML NEG	NORML NEG	
		scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	0	
	Boron	ppm	ASTM D5185m		6	2	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		<1	0	
	Molybdenum	ppm	ASTM D5185m		98	100	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		77	74	
	Calcium	ppm	ASTM D5185m		3971	4174	
	Phosphorus	ppm	ASTM D5185m		899	877	
	Zinc	ppm	ASTM D5185m		1002	1041	
	Sulfur	ppm	ASTM D5185m		4321	4533	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	10.9	11.7	
	Base Number (BN)		ASTM D2896		14.83	15.42	
		- Cr			11.00	10.12	

Visc @ 100°C cSt ASTM D445

15.1

14.9





Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: RON GROGAN - WALENT

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