

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

OIL ANALYSIS REPORT

Machine Id KENWORTH 01C Component Diesel Engine Fluid TRC PRO-SPEC V SYN BLEND 15W40 (44 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

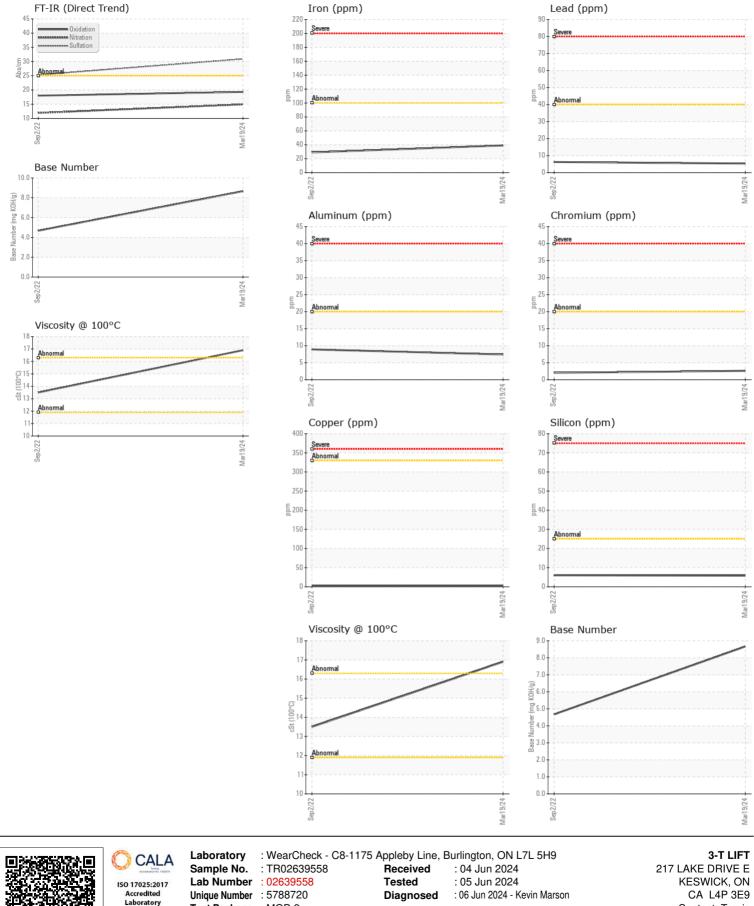
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	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		TR02639558	TR02513750	
	Sample Date		Client Info		19 Mar 2024	02 Sep 2022	
	Machine Age	hrs	Client Info		7209	5486	
	Oil Age	hrs	Client Info		1342	1000	
	Filter Age	hrs	Client Info		1342	0	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	N/A	
	Sample Status				NORMAL	NORMAL	
				400			
	Iron	ppm	ASTM D5185(m)	>100	39	29	
	Chromium	ppm	ASTM D5185(m)	>20	3	2	
	Nickel	ppm	ASTM D5185(m)	>4	0	0	
	Titanium	ppm	ASTM D5185(m)	0	0	<1	
	Silver	ppm	ASTM D5185(m)	>3	0	0	
	Aluminum	ppm	ASTM D5185(m)	>20	7	9	
	Lead	ppm	ASTM D5185(m)	>40	5	6	
	Copper	ppm	ASTM D5185(m)	>330	2	2	
	Tin	ppm	ASTM D5185(m)	>15	<1	<1	
	Vanadium	ppm	ASTM D5185(m)		0	0	
	Silicon	ppm	ASTM D5185(m)	>25	6	6	
	Potassium	ppm	ASTM D5185(m)	>20	18	20	
	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	ASTM D7844*	>3	0.5	0.3	
	Nitration	Abs/cm	ASTM D7624*	>20	14.9	11.9	
	Sulfation	Abs/.1mm	ASTM D7415*	>30	30.9	25.3	
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
	Sodium	ppm	ASTM D5185(m)		4	7	
	Boron	ppm	ASTM D5185(m)		15	15	
	Barium	ppm	ASTM D5185(m)		0	0	
	Molybdenum	ppm	ASTM D5185(m)		11	76	
	Manganese	ppm	ASTM D5185(m)		<1	<1	
	Magnesium	ppm	ASTM D5185(m)		43	147	
	Calcium	ppm	ASTM D5185(m)		4129	2131	
	Phosphorus	ppm	ASTM D5185(m)		930	993	
	Zinc	ppm	ASTM D5185(m)		1079	1111	
	Sulfur	ppm	ASTM D5185(m)		3507	3087	
	Oxidation	Abs/.1mm	ASTM D7414*	>25	19.3	18.0	
	Base Number (BN)	mg KOH/g	ASTM D2896*		8.66	4.67	
	Visc @ 100°C	cSt	ASTM D7279(m)		16.9	13.5	

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. Viscosity of sample indicates oil is within SAE 50 range, advise investigate. The condition of the oil is suitable for further service.

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Contact/Location: Travis ? - 3TLKES



Test Package : MOB 2 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)

: 06 Jun 2024 - Kevin Marson

CA L4P 3E9 Contact: Travis

T:

F:

Unique Number : 5788720

Contact/Location: Travis ? - 3TLKES Page 2 of 2