

Oak Grove SC Machine Id KENWORTH TRUCK 139

Diesel Engine

GUARD PLUS 15W40 CK9 (--- GAL)

RECOMMENDATION		Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.		Sample Number		Client Info		WC0917090		
		Sample Date		Client Info		08 May 2024		
		Machine Age	mls	Client Info		45534		
		Oil Age	mls	Client Info		8894		
		Filter Age	mls	Client Info		8894		
		Oil Changed		Client Info		Changed		
		Filter Changed		Client Info		Changed		
		Sample Status				NORMAL		
WEAR		Iron	ppm	ASTM D5185m	>100	14		
Metal levels are typical for a new component breaking in.		Chromium	ppm	ASTM D5185m		<1		
		Nickel	ppm	ASTM D5185m		<1		
		Titanium	ppm	ASTM D5185m	~ 1	<1		
		Silver	ppm	ASTM D5185m	>3	<1		
		Aluminum	ppm	ASTM D5185m		17		
		Lead	ppm	ASTM D5185m		<1		
		Copper	ppm	ASTM D5185m		7		
		Tin	ppm	ASTM D5185m		1		
		Vanadium	ppm	ASTM D5185m		<1		
		White Metal	scalar	*Visual	NONE	NONE		
		Yellow Metal	scalar	*Visual	NONE	NONE		
						•••••		
CONTAMINATION		Silicon	ppm	ASTM D5185m	>25	8		
Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels your metals analysis are likely a result of solder flux release into th lubricant and is common on new equipment/components. There is indication of any contamination in the oil.	(K) lovels in	Potassium	ppm	ASTM D5185m	>20	48		
		Fuel		WC Method	>5	<1.0		
		Water		WC Method	>0.2	NEG		
		Glycol		WC Method		NEG		
		Soot %	%	*ASTM D7844		0.2		
		Nitration	Abs/cm	*ASTM D7624	>20	9.6		
		Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8		
		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	>0.2	NEG		
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in oil. The condition of the oil is suitable for further service.		Sodium	ppm	ASTM D5185m		0		
		Boron	ppm	ASTM D5185m		19		
	maining in the	Barium	ppm	ASTM D5185m		2		
		Molybdenum	ppm	ASTM D5185m		78		
		Manganese	ppm	ASTM D5185m		<1		
		Magnesium	ppm	ASTM D5185m		255		
		Calcium	ppm	ASTM D5185m		1911		
		Phosphorus	ppm	ASTM D5185m		1056		
		Zinc	ppm	ASTM D5185m		1171		
		Sulfur	ppm	ASTM D5185m		3722		
		Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6		

Base Number (BN) mg KOH/g ASTM D2896

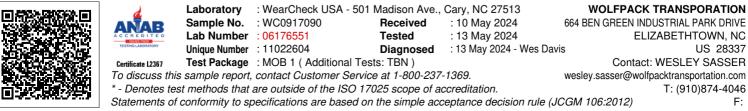
ASTM D445

Visc @ 100°C cSt

5.9

13.9





Submitted By: WESLEY SASSER Page 2 of 2