

OIL ANALYSIS REPORT

KENWORTH VS668

Component

PETRO CANADA 15W40 (11 GAL)

Diesel Engine

DIAGNOSIS

Recommendation Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

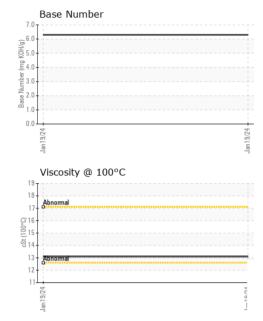
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

	NC

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0112143		
Sample Date		Client Info		19 Jan 2024		
Machine Age	mls	Client Info		497128		
Oil Age	mls	Client Info		24750		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	24		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m		1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	4		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	2		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		5		
Barium	ppm	ASTM D5185m		0		
Molybdenum		ASTM D5185m		60		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		974		
Calcium	ppm	ASTM D5185m		1263		
Phosphorus	ppm	ASTM D5185m		1091		
Zinc	ppm	ASTM D5185m		1269		
Sulfur	ppm	ASTM D5185m		2988		
CONTAMINAN		method	limit/base	current	history1	history2
Silicon		ASTM D5185m	>25	11		
Sodium	ppm		>20			
Oddiaiii				1		
Potassium	ppm	ASTM D5185m	>20	1		
Potassium	ppm	ASTM D5185m	>20	2		
INFRA-RED	ppm	ASTM D5185m method	limit/base	2 current	history1	history2
INFRA-RED Soot %	ppm %	ASTM D5185m method *ASTM D7844	limit/base	current 0.5	history1	history2
INFRA-RED Soot % Nitration	ppm % Abs/cm	ASTM D5185m method *ASTM D7844 *ASTM D7624	limit/base >3 >20	2 current 0.5 9.3	history1	history2
INFRA-RED Soot %	ppm %	ASTM D5185m method *ASTM D7844	limit/base	current 0.5	history1	history2
INFRA-RED Soot % Nitration	ppm % Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624	limit/base >3 >20	2 current 0.5 9.3	history1	history2
INFRA-RED Soot % Nitration Sulfation	ppm % Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >3 >20 >30	2 current 0.5 9.3 20.8	 history1 	history2



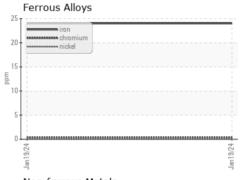
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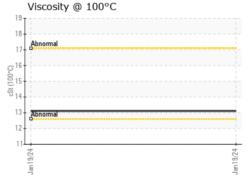
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		
FLUID PROPE	RTIES	method	limit/base	current	history1	history2

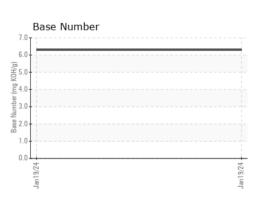
FLUID FROF	LHILS	memou		HISTOLAL	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	13.1		

GRAPHS



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Laboratory Sample No.

Lab Number : 06086977 Unique Number : 10874422

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0112143

Received Tested Test Package : FLEET

: 13 Feb 2024 : 13 Feb 2024 Diagnosed

: 13 Feb 2024 - Wes Davis

VOYAGER TRUCKING CORP 451 FRELINGHUYSEN AVENUE

NEWARK, NJ US 07114

Contact: DAVID LOPEZ david@voyagertrucking.com T:

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - 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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