

# **OIL ANALYSIS REPORT**

Sample Rating Trend

WEAR



# KENWORTH 48

Component

**Diesel Engine** 

PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)

## DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

## Wear

The aluminum level is abnormal. All other component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil

#### **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.

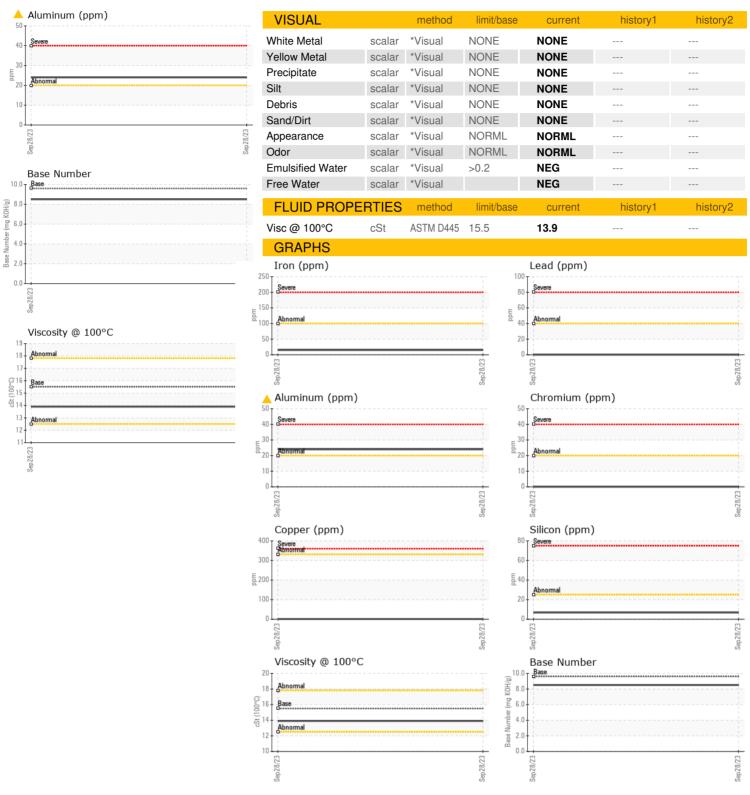
15W40 ( GAL)				Sep2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0105053		
Sample Date		Client Info		28 Sep 2023		
Machine Age	mls	Client Info		484303		
Oil Age	mls	Client Info		20000		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATI	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	15		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	<u>^</u> 24		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	1		
Tin	ppm	ASTM D5185m	>15	4		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	1	5		
Barium	ppm	ASTM D5185m	1	0		
Molybdenum	ppm	ASTM D5185m	60	62		
Manganese	ppm	ASTM D5185m	1	0		
Magnesium	ppm	ASTM D5185m	1010	924		
Calcium	ppm	ASTM D5185m	1070	1188		
Phosphorus	ppm	ASTM D5185m	1150	1020		

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Manganese	ppm	ASTM D5185m	1	0		
Magnesium	ppm	ASTM D5185m	1010	924		
Calcium	ppm	ASTM D5185m	1070	1188		
Phosphorus	ppm	ASTM D5185m	1150	1020		
Zinc	ppm	ASTM D5185m	1270	1258		
Sulfur	ppm	ASTM D5185m	2060	3091		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7		
Sodium	ppm	ASTM D5185m		2		

Potassium	ppm	ASTM D5185m	>20	10		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	7.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1		
Base Number (BN)	mg KOH/g	ASTM D2896	9.6	8.5		



## **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number **Unique Number** 

: PCA0105053 : 05969541 : 10676092

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

Diagnosed

: 04 Oct 2023 : 09 Oct 2023 Diagnostician : Sean Felton

Test Package : MOB 1 (Additional Tests: TBN)

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)

**B & B HARVESTING** 

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