

# **OIL ANALYSIS REPORT**

# Sample Rating Trend

# **NORMAL**



# WOLVO VNL 104 (S/N 4V4NC9EH3MN286696)

**Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (---

### 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.

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iAL)				Jul2023		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0097573		
Sample Date		Client Info		14 Jul 2023		
Machine Age	mls	Client Info		393000		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<1.0		
Glycol		WC Method		NEG		
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	34		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>25	7		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	5		
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	2	0		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	50	65		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	950	1027		
Calcium	ppm	ASTM D5185m	1050	1176		
Phosphorus	ppm	ASTM D5185m	995	1012		

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	0		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	50	65		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	950	1027		
Calcium	ppm	ASTM D5185m	1050	1176		
Phosphorus	ppm	ASTM D5185m	995	1012		
Zinc	ppm	ASTM D5185m	1180	1265		
Sulfur	ppm	ASTM D5185m	2600	3392		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4		
Sodium	ppm	ASTM D5185m		3		

INFRA-RED		method				history2
Soot %	%	*ASTM D7844	>3	0.5		
Nitration	Abs/cm	*ASTM D7624	>20	10.0		
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.9		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.6		

0

ASTM D5185m >20

ppm

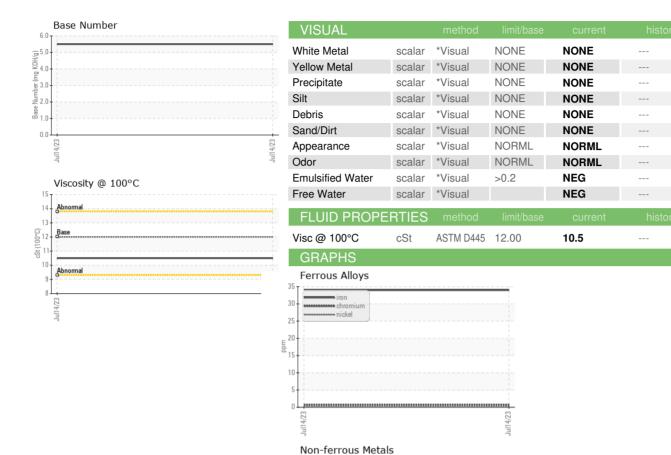
Base Number (BN) mg KOH/g ASTM D2896

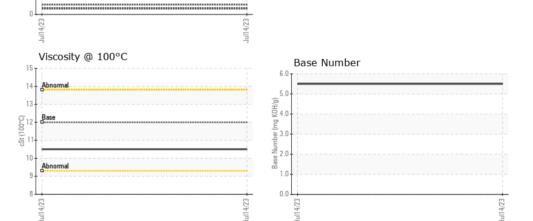
Report Id: TVAPLAIL [WUSCAR] 05905127 (Generated: 07/24/2023 16:28:23) Rev: 1

Potassium



## **OIL ANALYSIS REPORT**









Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0097573 : 05905127

: 10566483 Test Package : FLEET

Received : 24 Jul 2023 Diagnosed

Diagnostician : Wes Davis

: 24 Jul 2023

**TVA REPAIR LLC** 13915 W ROUTE 30 PLAINFIELD, IL US 60544 Contact: JOSHUA HUBBARD

joshua@tvarepairllc.com

T: (815)306-0330 F:

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)