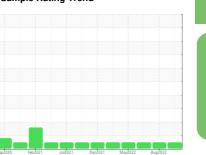


# **OIL ANALYSIS REPORT**

## Sample Rating Trend



NORMAL



# Volvo Vnr400 2026792

Component

1 Diesel Engin

1 Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- GAL)

## DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the oil

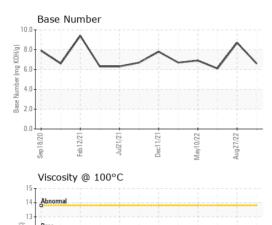
## **Fluid Condition**

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

GAL)		Sep2020	Feb 2021 Jul 2021	Dec2021 May2022 Au	1g2022	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0088754	PCA0075923	PCA0071188
Sample Date		Client Info		24 Jun 2023	27 Aug 2022	24 Jun 2022
Machine Age	mls	Client Info		362971	264268	242222
Oil Age	mls	Client Info		20000	20000	40000
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	37	13	23
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	2	0	<1
Titanium	ppm	ASTM D5185m		4	8	17
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>25	2	2	2
Lead	ppm	ASTM D5185m	>40	2	<1	1
Copper	ppm	ASTM D5185m	>330	10	4	8
Tin	ppm	ASTM D5185m	>15	1	<1	1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	4	5	6
Barium	ppm	ASTM D5185m	0	2	0	0
Molybdenum	ppm	ASTM D5185m	50	56	54	47
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	780	784	744
Calcium	ppm	ASTM D5185m	1050	1289	1148	1220
Phosphorus	ppm	ASTM D5185m	995	902	989	853
Zinc	ppm	ASTM D5185m	1180	1163	1176	1135
Sulfur	ppm	ASTM D5185m	2600	2859	3058	2760
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	3	4
Sodium	ppm	ASTM D5185m		2	0	1
Potassium	ppm	ASTM D5185m	>20	2	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	11.3	8.7	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	20.0	22.1
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.6	15.4	17.0
Base Number (BN)	mg KOH/g		- 20	6.6	8.7	6.1
Dago Namber (DIV)	ing North	AO I WI DE000		0.0	0.1	0.1



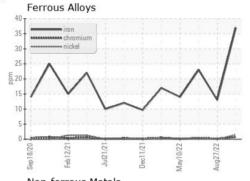
# **OIL ANALYSIS REPORT**

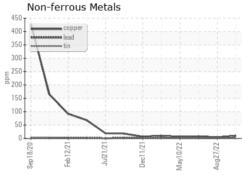


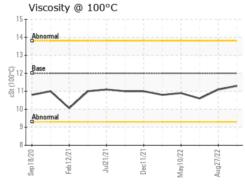
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

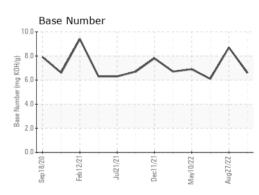
FLUID PROP	ERIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	12.00	11.3	11.1	10.6

## **GRAPHS**













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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0088754 : 05898303 : 10559659

Received Diagnosed

: 14 Jul 2023 : 17 Jul 2023 Diagnostician : Wes Davis

**PERDUE FARMS - SALISBURY** 

7036 ZION CHURCH ROAD SALISBURY, MD US 21802

Contact: RICHARD O'NEAL richard.oneal@perdue.com

T: (410)543-3628 F: (410)341-2164

Test Package : FLEET Certificate L2367 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)