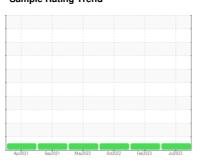


# **OIL ANALYSIS REPORT**

#### Sample Rating Trend



NORMAL



# Machine Id **2026887**

Component **Diesel Engine** 

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

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

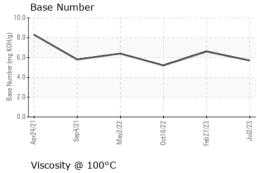
#### **Fluid Condition**

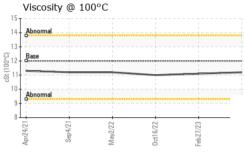
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

QIS)		Apr2021	Sep2021 May2022	Oct2022 Feb2023	Jul2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0101680	PCA0092876	PCA0082274
Sample Date		Client Info		02 Jul 2023	27 Feb 2023	16 Oct 2022
Machine Age	mls	Client Info		0	0	114064
Oil Age	mls	Client Info		40000	20000	41690
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS method limit/base current history1 history2						history2
Iron	ppm	ASTM D5185m	>100	50	25	50
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		7	7	5
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	2	2	4
Lead	ppm	ASTM D5185m	>40	2	<1	3
Copper	ppm	ASTM D5185m	>330	9	7	17
Tin	ppm	ASTM D5185m	>15	1	<1	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<1	4	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	59	48	54
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	896	775	832
Calcium	ppm	ASTM D5185m	1050	1203	1053	1166
Phosphorus	ppm	ASTM D5185m	995	980	849	873
Zinc	ppm	ASTM D5185m	1180	1240	1047	1185
Sulfur	ppm	ASTM D5185m	2600	3161	3168	2818
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4	5
Sodium	ppm	ASTM D5185m		<1	2	2
Potassium	ppm	ASTM D5185m	>20	5	3	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.5	0.8
Nitration	Abs/cm	*ASTM D7624	>20	11.4	10.3	13.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.9	21.0	26.3
FLUID DEGRADATION method limit/base current history1 history2						
				Garront	<u> </u>	-
Oxidation	Abs/.1mm		>25		16.9	22.2
		*ASTM D7414 ASTM D2896		18.5 5.7	·	



# **OIL ANALYSIS REPORT**



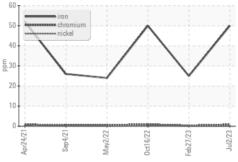


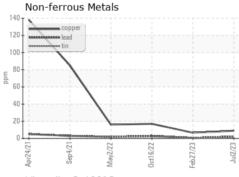
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

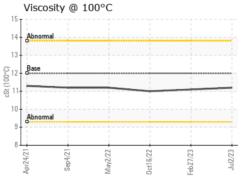
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	12.00	11.2	11.1	11.0	

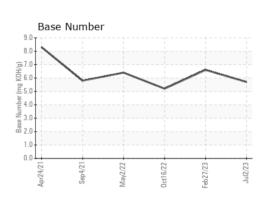
#### **GRAPHS**

# Ferrous Alloys













Certificate L2367

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

Test Package : FLEET

: PCA0101680 : 05930754

: 10616025

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 Aug 2023

Diagnosed : 22 Aug 2023 Diagnostician : Wes Davis

**PERDUE FARMS - GEORGETOWN** 

20621 SAVANAH RD GEORGETOWN, DE US 19947

Contact: ROBERT LOCKWOOD Robert.Lockwood@Perdue.com

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)

Report Id: PERGEODE [WUSCAR] 05930754 (Generated: 08/22/2023 19:31:58) Rev: 1

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