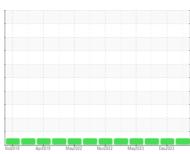


# **OIL ANALYSIS REPORT**

## Sample Rating Trend



NORMAL



Machine Id **26641** 

Component **Diesel Engine** 

PETRO CANADA DURON UHP 5W30 (--- QTS)

## 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

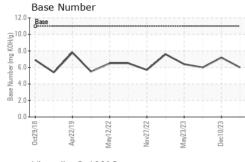
## **Fluid Condition**

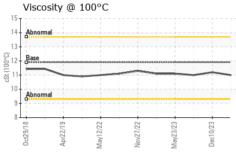
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

(15)		Oct2018	Apr2019 May2022	Nov2022 May2023 D	ac2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		PCA0115449	PCA0103361	PCA0106128	
Sample Date		Client Info		26 Dec 2023	10 Dec 2023	16 Oct 2023	
Machine Age	mls	Client Info		0	401953	421145	
Oil Age	mls	Client Info		20000	0	38461	
Oil Changed		Client Info		Not Changd	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	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	9	7	18	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1	
Titanium	ppm	ASTM D5185m		<1	<1	<1	
Silver	ppm	ASTM D5185m	>2	<1	0	<1	
Aluminum	ppm	ASTM D5185m	>25	2	2	2	
Lead	ppm	ASTM D5185m	>40	2	1	3	
Copper	ppm	ASTM D5185m	>330	4	2	4	
Tin	ppm	ASTM D5185m	>15	1	<1	1	
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		<1	<1	<1	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	4	0	0	
Barium	ppm	ASTM D5185m	0	0	0	12	
Molybdenum	ppm	ASTM D5185m	64	51	56	62	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1160	834	890	964	
Calcium	ppm	ASTM D5185m	820	1002	1036	1089	
Phosphorus	ppm	ASTM D5185m	1160	937	979	1033	
Zinc	ppm	ASTM D5185m	1260	1060	1205	1266	
Sulfur	ppm	ASTM D5185m	3000	3130	3501	2919	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	3	4	5	
Sodium	ppm	ASTM D5185m		8	6	13	
Potassium	ppm	ASTM D5185m	>20	3	2	4	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	8.4	7.3	9.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	18.6	21.7	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	15.0	18.3	
Base Number (BN)	mg KOH/g	ASTM D2896		6.0	7.2	6.0	
(514)	99				-		



# **OIL ANALYSIS REPORT**

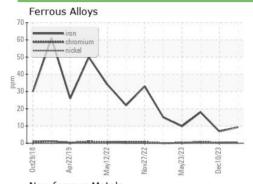


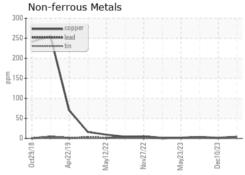


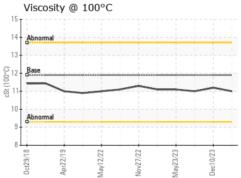
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

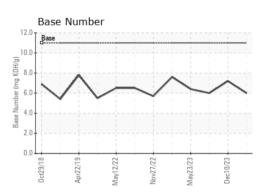
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	11.9	11.0	11.2	11.0	

## **GRAPHS**













Certificate L2367

Report Id: PERGEODE [WUSCAR] 06118065 (Generated: 03/15/2024 14:23:36) Rev: 1

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0115449 Lab Number : 06118065 Unique Number: 10926898

Test Package : FLEET

Received : 14 Mar 2024 **Tested** Diagnosed

: 15 Mar 2024 : 15 Mar 2024 - 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)

Contact/Location: ROBERT LOCKWOOD - PERGEODE

T:

F: