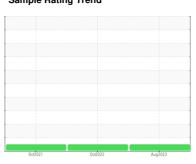


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id **04539** 

Component **Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (--- 0

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

#### Contamination

There is no indication of any contamination in the

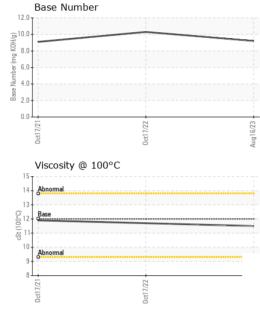
#### **Fluid Condition**

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

QTS)		00	2021	Oct2022 Aug20	23	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0102768	PCA0081817	PCA0059997
Sample Date		Client Info		16 Aug 2023	17 Oct 2022	17 Oct 2021
Machine Age	mls	Client Info		3052	2819	0
Oil Age	mls	Client Info		2819	2819	0
Oil Changed		Client Info		N/A	N/A	N/A
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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	2	6	5
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	1	2	1
Lead	ppm	ASTM D5185m	>40	<1	1	<1
Copper	ppm	ASTM D5185m	>330	2	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	3	5	10
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	50	60	61	63
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	966	937	1057
Calcium	ppm	ASTM D5185m	1050	1073	1129	1213
Phosphorus	ppm	ASTM D5185m	995	1015	1044	1060
Zinc	ppm	ASTM D5185m	1180	1217	1227	1194
Sulfur	ppm	ASTM D5185m	2600	3657	3379	4810
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	4
Sodium	ppm	ASTM D5185m		1	0	1
Potassium	ppm	ASTM D5185m	>20	<1	2	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	4.8	5.6	5.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.9	18.6	17.1
FLUID DEGRAI		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.0	14.3	12.8
Base Number (BN)	mg KOH/g	ASTM D2896		9.2	10.3	9.1



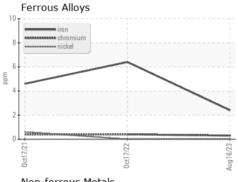
## **OIL ANALYSIS REPORT**



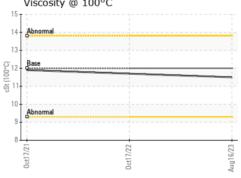
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

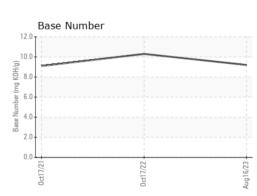
FLUID PROP	ERITES	method			riistory i	riistoryz
Visc @ 100°C	cSt	ASTM D445	12.00	11.5	11.7	11.9

### **GRAPHS**



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0ct17/21-	0ct17/22	Aug16/23
Viscosity	<b>ര 100</b> °C	









Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10607995 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0102768 : 05928048

Received Diagnosed

: 18 Aug 2023 : 20 Aug 2023

Diagnostician : Wes Davis

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)

**PERDUE FARMS - DILLON** 

2047 HWY 9 WEST DILLON, SC US 29536

Contact: KEVIN HOOKS kevin.hooks@perdue.com T: (843)841-8069

Submitted By: KEVIN HOOKS

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