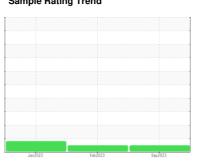


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id **2227031** 

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.

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

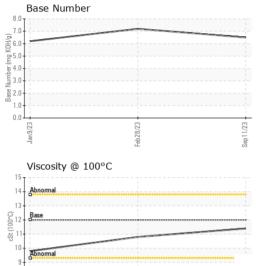
#### **Fluid Condition**

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

QTS) Janto23 Feb.2023 Sep.2023							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		PCA0094584	PCA0052359	PCA0052369	
Sample Date		Client Info		11 Sep 2023	28 Feb 2023	09 Jan 2023	
Machine Age	mls	Client Info		128992	61236	38839	
Oil Age	mls	Client Info		38334	22397	38839	
Oil Changed		Client Info		Changed	N/A	Changed	
Sample Status				NORMAL	NORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	0.6	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	25	22	67	
Chromium	ppm	ASTM D5185m	>20	<1	<1	1	
Nickel	ppm	ASTM D5185m	>4	<1	4	<u> </u>	
Titanium	ppm	ASTM D5185m		0	0	<1	
Silver	ppm	ASTM D5185m	>3	<1	<1	0	
Aluminum	ppm	ASTM D5185m	>20	1	7	23	
Lead	ppm	ASTM D5185m	>40	1	2	5	
Copper	ppm	ASTM D5185m	>330	19	214	315	
Tin	ppm	ASTM D5185m	>15	1	2	6	
Vanadium	ppm	ASTM D5185m	7.0	0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	2	7	7	64	
Barium	ppm	ASTM D5185m	0	<1	0	0	
Molybdenum	ppm	ASTM D5185m	50	50	71	125	
Manganese	ppm	ASTM D5185m	0	1	1	6	
Magnesium	ppm	ASTM D5185m	950	666	941	646	
Calcium	ppm	ASTM D5185m	1050	1570	1192	1441	
Phosphorus	ppm	ASTM D5185m	995	760	954	635	
Zinc	ppm	ASTM D5185m	1180	1012	1214	783	
Sulfur	ppm	ASTM D5185m	2600	2761	3152	2124	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	8	53	
Sodium	ppm	ASTM D5185m		4	2	3	
Potassium	ppm	ASTM D5185m	>20	5	17	80	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.5	0.4	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	10.1	8.9	12.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	20.5	24.6	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.6	16.8	24.4	
Base Number (BN)	mg KOH/g	ASTM D2896		6.5	7.2	6.2	
Dasc Hamber (DIV)	my Normy	7.0 TWI DE000		0.0	1.6	0.2	



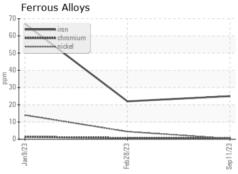
# **OIL ANALYSIS REPORT**

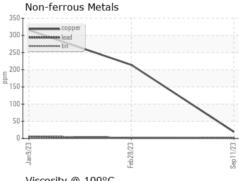


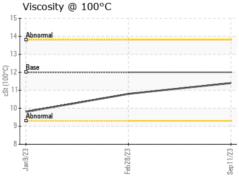
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

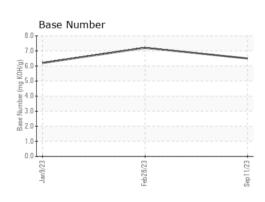
L LOID PROPI	ERITES	memoa			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	12.00	11.4	10.8	9.8

### **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10655878 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0094584 : 05954665

Received Diagnosed

: 18 Sep 2023 : 20 Sep 2023 Diagnostician : Wes Davis

**PERDUE FARMS - WASHINGTON** 

P.O. BOX 539 WASHINGTON, IN US 47501 Contact: DEREK RYAN

derek.ryan@perdue.com T: (812)257-3023

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)