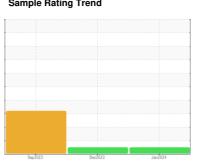


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id 121621-5095

Component

**Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (--- 0

## 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.

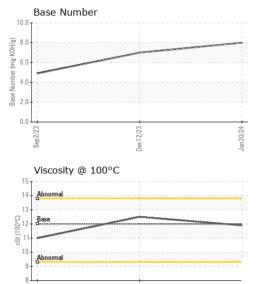
### **Fluid Condition**

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

QTS)		Sej	2023	Dec2023 Jan202	4	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0117055	PCA0113411	PCA0104287
Sample Date		Client Info		30 Jan 2024	12 Dec 2023	02 Sep 2023
Machine Age	mls	Client Info		0	42268	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	66	98	<u> </u>
Chromium	ppm	ASTM D5185m	>20	2	2	3
Nickel	ppm	ASTM D5185m	>4	0	0	1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	7	12	<b>1</b> 26
Lead	ppm	ASTM D5185m	>40	4	3	5
Copper	ppm	ASTM D5185m	>330	32	104	275
Tin	ppm	ASTM D5185m	>15	3	4	7
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	2	9	36
Barium	ppm	ASTM D5185m	0	<1	0	3
Molybdenum	ppm	ASTM D5185m	50	74	72	26
Manganese	ppm	ASTM D5185m	0	1	2	4
Magnesium	ppm	ASTM D5185m	950	1102	985	227
Calcium	ppm	ASTM D5185m	1050	1417	1428	1227
Phosphorus	ppm	ASTM D5185m	995	1211	1174	943
Zinc	ppm	ASTM D5185m	1180	1474	1529	1249
Sulfur	ppm	ASTM D5185m	2600	3069	2754	2790
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	14	<b>△</b> 45
Sodium	ppm	ASTM D5185m		2	2	5
Potassium	ppm	ASTM D5185m	>20	4	7	15
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.4	1.7	1.1
Nitration	Abs/cm	*ASTM D7624	>20	13.1	15.6	12.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.1	28.1	25.0
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.6	26.8	25.2
Base Number (BN)	mg KOH/g	ASTM D2896		8.0	7.0	4.9



## **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
FLLIID PROPE	RTIES	method	limit/hase	current	history1	history2

FLUID PROP	ERIIES	method			riistory i	History
Visc @ 100°C	cSt	ASTM D445	12.00	11.9	12.5	11.0

	COL	AO I WI DTTO	12.00	11.5	12.0	11.0
GRAPHS						
Iron (ppm)				Lead (ppm)	)	
Severe				Severe		
g 150				Abnormal		
150 100 - Abnormal				10		
50				20		
Sep 2/23 -	Dec12/23 -		Jan30/24 -	Sep 2/23	Dec12/23 -	Jan30/24
			Jan			Jan
Aluminum (ppm	)			Chromium 50 T	(ppm)	
40 Severe				40 - Severe		
Abnormel				Abnormal		
10				10+		
0			+	0	3	
Sep2/23	Dec12/23		Jan30/24	Sep 2/23	Dec12/23	Jan30/24
Copper (ppm)			7	Silicon (ppn		7
400				80 - Severe		
Severe Abnormal				T		
300 - Abiroimal				60-		
Abnormal				E 40		
300 - Abiroimal						
300 - E 200 - 0	527		754	Abnormal	753	9724
300 - Browns - 100	Dec12/23		Jan30/24	Abnormal	Dec1223	Jan30.24
300 EXZ days			Jan30/24	Abnormal 20 CZZZdas Base Numb		Jan30/24
800   800   100			Jan30/24	Abnormal 20 EZZZdes Base Numb		Jan30/24
800   800   100			Jan30/24	Abnormal 20 EZZZdes Base Numb		Jan30/24
300 Bottoms 100 CERCATE OF THE PROPERTY OF THE			Jan30/24	Abnormal 20 EZZZdes Base Numb		Jan30/24
300 Bottoms 300 Viscosity @ 1000  Abnormal  Base Abnormal  Abnormal				Base Numb		
300 Bottoms 300 Viscosity @ 1000  Abnormal  Base Abnormal  Abnormal	PC			Base Numb	er	
300 Bottoms 300 100 100 100 100 100 100 100 100 100			Jan30/24	Base Numb		Jan30/24





Laboratory Sample No.

Lab Number : 06086984 Unique Number : 10874429

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0117055 Received : 13 Feb 2024 **Tested** 

: 13 Feb 2024 Diagnosed : 13 Feb 2024 - Wes Davis

Test Package: MOB 1 (Additional Tests: TBN)

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. **MILLER TRUCK LEASING #119** 

39 INDUSTRIAL AVE HASBROUCK HEIGHTS, NJ US 07604

Contact: MIKE LONGETTE

mlongette@millertransgroup.com T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (201)528-7053

Contact/Location: MIKE LONGETTE - MILRUT