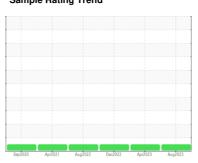


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id **406959** 

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.

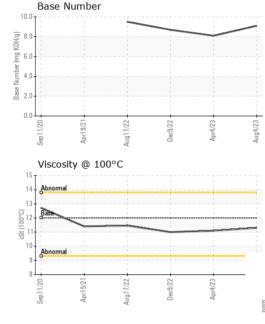
### **Fluid Condition**

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

QTS)		Sep 2020	Apr2021 Aug202	2 Dec2022 Apr2023	Aug2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date		Client Info		PCA0103084 04 Aug 2023	PCA0095961 04 Apr 2023	PCA0083576 09 Dec 2022
Machine Age	mls	Client Info		86889	0	82128
Oil Age	mls	Client Info		0	0	0
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	>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	6	6	24
Chromium	ppm	ASTM D5185m	>20	<1	0	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	2	11
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	2	<1	3
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	12	16	0
Barium	ppm	ASTM D5185m	0	0	2	1
Molybdenum	ppm	ASTM D5185m	50	61	57	66
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	936	804	930
Calcium	ppm	ASTM D5185m	1050	1123	979	1112
Phosphorus	ppm	ASTM D5185m	995	1014	894	1022
Zinc	ppm	ASTM D5185m	1180	1252	1088	1269
Sulfur	ppm	ASTM D5185m	2600	3733	3020	3468
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	2	2
Sodium	ppm	ASTM D5185m		2	<1	<1
Potassium	ppm	ASTM D5185m	>20	3	0	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.6
Nitration	Abs/cm	*ASTM D7624	>20	5.2	5.2	10.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.7	15.7	21.4
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.7	12.3	17.3
Base Number (BN)	mg KOH/g	ASTM D2896	-	9.1	8.1	8.7



## **OIL ANALYSIS REPORT**



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	LIGHT	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 PROPE	RTIFS	method	limit/base	current	historv1	historv2

FLUID FROF	ENTIES	method			HISTOLAL	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	12.00	11.3	11.1	11.0

	GRAF							d (n )							
250 T	Iron (p	opm)					100 <sub>T</sub> :	d (ppm)							
200	Severe						80 - Sever	e				-			
돌 <sup>150</sup> -	Ab						E 60 Abno								
	Abnormal			***************************************			407	mai				-			
50							20								
	Sep11/20	Apr19/21-	Aug17/22	Dec9/22 -	Apr4/23 -	Aug4/23	Sep11/20	Apr19/21	Aug17/22 -	Dec9/22 -	Apr4/23 -	Aug4/23			
				Dec	Apı	Aug				Dec	Apı	Aug			
50 <del>-</del>	Alumin	num (p	pm)				Chr	Chromium (ppm)							
40	Severe						Severe	e							
8 20 -	Abnormal						20 Abno	rmal				-			
10		_			_		10								
0 1	20	721	- 22	22	23	23	20 02	/21	22	22	23	-23			
	Sep11/20	Apr19/21	Aug17/22.	Dec9/22 -	Apr4/23	Aug4/23	Sep11/20	Apr19/21	Aug17/22 -	Dec9/22	Apr4/23	Aug4/23			
	Coppe	r (ppn						on (ppm)							
400	Severe Abnormal						80 T Sever	e							
300							60								
툽 200 <b>-</b>							E 40 Abno								
100							20	mai							
0		_	7	2	3		٥		7	2	3	===			
	Sep11/20	Apr19/21	Aug17/22.	Dec9/22	Apr4/23	Aug4/23	Sep11/20	Apr19/21	Aug17/22 -	Dec9/22	Apr4/23	Aug4/23			
	∞ Viscosi					⋖		∝ e Numbe				⋖			
16 T	VISCUSI	Ly Cu.	100 C				10.0	e Numbe	·						
_14	Abnormal						Base Mumber (mg KOH/g)								
(C)-00112	Base						E 6.0								
र्छ 10-	Abnormal						4.0								
8	Abnormal						2.0								
	Sep11/20	Apr19/21-	Aug17/22 -	Dec9/22 -	Apr4/23 -	Aug4/23	Sep11/20	Apr19/21-	Aug17/22 -	Dec9/22 -	Apr4/23	Aug4/23			
	Sep	Apr	Aug1	Dec	Api	Aug	Sep1	Apr	Aug1	Dec	Api	Aug			





Laboratory

Sample No. Lab Number

Unique Number : 10605682

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0103084 : 05925735

Received Diagnosed

: 16 Aug 2023 : 16 Aug 2023 Diagnostician : 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

**MILLER TRUCK LEASING #119** 

39 INDUSTRIAL AVE HASBROUCK HEIGHTS, NJ US 07604

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Report Id: MILRUT [WUSCAR] 05925735 (Generated: 08/16/2023 14:35:07) Rev: 1

Contact/Location: MIKE LONGETTE - MILRUT