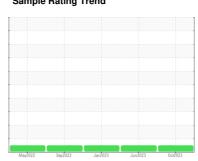


# **OIL ANALYSIS REPORT**

#### Sample Rating Trend







# Machine Id 101083

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.

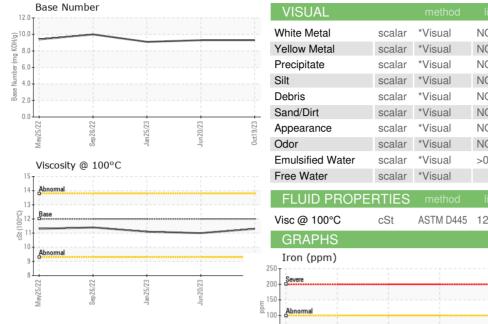
#### **Fluid Condition**

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

QTS)		May2022	Sep2022	Jan 2023 Jun 2023	Oct2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0110423	PCA0098024	PCA0089672
Sample Date		Client Info		19 Oct 2023	20 Jun 2023	25 Jan 2023
Machine Age	mls	Client Info		76490	70943	65365
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
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	11	9	11
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	<1
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	3	2	4
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	3	14	19
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	61	65	69
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	954	852	887
Calcium	ppm	ASTM D5185m	1050	1043	1150	1192
Phosphorus	ppm	ASTM D5185m	995	1100	1021	997
Zinc	ppm	ASTM D5185m	1180	1251	1189	1208
Sulfur	ppm	ASTM D5185m	2600	3012	3111	3573
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	4
Sodium	ppm	ASTM D5185m		<1	<1	1
Potassium	ppm	ASTM D5185m	>20	0	1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	8.3	7.8	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	18.8	18.4
FLUID DEGRA	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	14.9	14.5
Base Number (BN)	mg KOH/g	ASTM D2896		9.3	9.3	9.1



## **OIL ANALYSIS REPORT**



	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	
ĹΙ	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE	
Oct19/23	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML	
0ct1	Odor	scalar	*Visual	NORML	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG	
	Free Water	scalar	*Visual		NEG	NEG	NEG	
	FLUID PROPE	RTIES	method	limit/base	current	history1	history	2
	Visc @ 100°C	cSt	ASTM D445	12.00	11.3	11.0	11.1	
	GRAPHS							
	Iron (ppm)			10	Lead (ppm)			
	Severe			8	Severe			
11	50							
5	Abnormal			Ed 4	Abarana			
į	50			2	0			
	0				0			_
	May25/22 Sep26/22	Jan25/23	Jun20/23	0ct19/23	May25/22 Sep26/22	Jan25/23	Jun20/23	Oct19/23
	2	- Sai	η	ő	2	-	Π̈́	0
į	Aluminum (ppm)			5	Chromium (pp	om) 		
4	40 Severe			4	Severe		-	
E :	30							
mdd .	20 - Abnormal		-	Ed 2	0 - Abnormal			
	10+			1	0+			
			22		2 2		20	
	May25/22 Sep26/22	Jan25/23	Jun20/23	Oct19/23	May25/22 Sep26/22	Jan25/23	Jun20/23	Oct19/23
	2	Ď	7	0	≅   Silicon (ppm)	-5	7	0
40	Copper (ppm)  Severe			8	Silicon (ppin)			,-
30	Abitotimal			6	0			
띮 20	00			Ed4				
					Abnormal		***************************************	
10	00+			2	0			
	222	23	23.		727	- EZ	23-	13
	May25/22 Sep26/22	Jan25/23	Jun20/23	Oct19/23	May25/ Sep26/	Jan25/23	Jun20/23	0ct19/
	Viscosity @ 100°C	-	7		Base Number	7	7	
	16			12.	0T:			
	Abnormal			夏10.				-
cSt (100°C)	Base			8. a e.				
55	10 - Abnormal			8 see Number (mg KOH/(g)				
				es 2.	1:			
	727	- 1/23	- 73	<b>─</b> 0.		- 123	- 123	73
	May25/22 Sep 26/22	Jan25/23	Jun20/23	Oct19/23	May25/22 Sep26/22	Jan25/23	Jun20/23	Oct19/23
			-					
	· MaarChaal IICA E	01 1104:	an Aug Ca	W. NO 0751	O NAI	LIED TOUCK	LEACING #	440





Laboratory Sample No. Lab Number

Unique Number : 10818462 Test Package : MOB 1 (Additional Tests: TBN)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0110423 : 06052513

Recieved : 05 Jan 2024 Diagnosed

: 08 Jan 2024 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)

**MILLER TRUCK LEASING #119** 39 INDUSTRIAL AVE

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Report Id: MILRUT [WUSCAR] 06052513 (Generated: 01/08/2024 10:50:27) Rev: 1

Contact/Location: MIKE LONGETTE - MILRUT