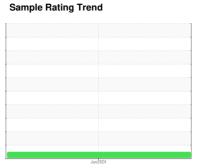


# **OIL ANALYSIS REPORT**

Jani



NORMAL



Machine Id
735970
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.

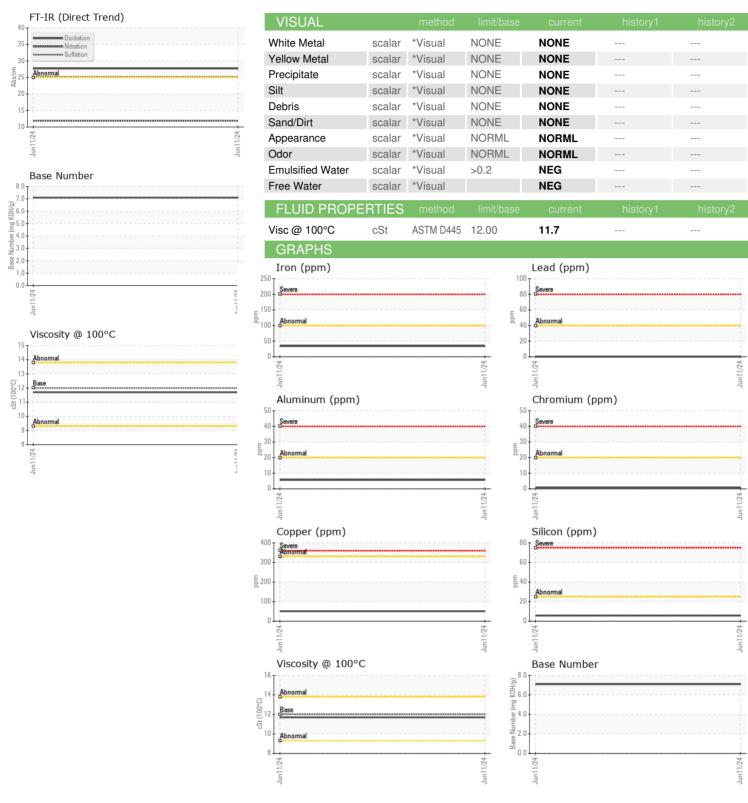
### Fluid Condition

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

SAMPLE INFORMATION   method   limit/base   current   history1   history2   Sample Number   Client Info   11 Jun 2024	TS)				Jun2024		
Sample Date   Client Info   11 Jun 2024	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age   mls   Client Info   0   0   0   0   0   0   0   0   0	Sample Number		Client Info		PCA0123296		
Oil Changed Oil Changed Sample Status         Client Info         Changed Cha	Sample Date		Client Info		11 Jun 2024		
Contamped   Client Info   Normal   Changed   Contamped   Contamp	Machine Age	mls	Client Info		220011		
CONTAMINATION	Oil Age	mls	Client Info		0		
CONTAMINATION   method   limit/base   current   history1   history2	Oil Changed		Client Info		Changed		
Fuel   WC Method   S5   C1.0   C1.0	Sample Status				NORMAL		
Water Glycol         WC Method WC Method         >0.2         NEG             WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >100         34             Chromium         ppm         ASTM D5185m         >20         <1             Nickel         ppm         ASTM D5185m         >4         0             Silver         ppm         ASTM D5185m         >4         0             Silver         ppm         ASTM D5185m         >40         0             Aluminum         ppm         ASTM D5185m         >20         6             Lead         ppm         ASTM D5185m         >40         0             Copper         ppm         ASTM D5185m         >15         <1             Vanadium         ppm         ASTM D5185m         0              Vanadium         ppm         ASTM D5185m         0         0	CONTAMINAT	ION	method	limit/base	current	history1	history2
WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >100         34             Chromium         ppm         ASTM D5185m         >20         <1	Fuel		WC Method	>5	<1.0		
WEAR METALS	Water		WC Method	>0.2	NEG		
Chromium	Glycol		WC Method		NEG		
Chromium	WEAR METAL	.S	method	limit/base	current	history1	history2
Nickel	Iron	ppm		>100			
Titanium	Chromium	ppm	ASTM D5185m	>20	<1		
Silver	Nickel	ppm	ASTM D5185m	>4	0		
Aluminum	Titanium	ppm	ASTM D5185m		0		
Lead	Silver	ppm	ASTM D5185m	>3	0		
Copper         ppm         ASTM D5185m         >330         51             Tin         ppm         ASTM D5185m         >15         <1	Aluminum	ppm	ASTM D5185m	>20	6		
Tin	Lead	ppm	ASTM D5185m	>40	0		
Vanadium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         2         24             Barium         ppm         ASTM D5185m         0         0             Molybdenum         ppm         ASTM D5185m         50         54             Manganese         ppm         ASTM D5185m         950         567             Calcium         ppm         ASTM D5185m         950         1810             Phosphorus         ppm         ASTM D5185m         1050         1810             Zinc         ppm         ASTM D5185m         1050         1351             Sulfur         ppm         ASTM D5185m         2600         3052             CONTAMINANTS         method         limit/base         current         history	Copper	ppm	ASTM D5185m	>330	51		
ADDITIVES	Tin	ppm	ASTM D5185m	>15	<1		
ADDITIVES	Vanadium	ppm	ASTM D5185m		0		
Boron   ppm   ASTM D5185m   2   24	Cadmium	ppm	ASTM D5185m		0		
Barium         ppm         ASTM D5185m         0         0             Molybdenum         ppm         ASTM D5185m         50         54             Manganese         ppm         ASTM D5185m         0         1             Magnesium         ppm         ASTM D5185m         950         567             Calcium         ppm         ASTM D5185m         1050         1810             Phosphorus         ppm         ASTM D5185m         995         1114             Zinc         ppm         ASTM D5185m         995         1114             Sulfur         ppm         ASTM D5185m         2600         3052             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         9             Sodium         ppm         ASTM D5185m         9             Potassium         ppm         ASTM D5185m         20         20	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         50         54             Manganese         ppm         ASTM D5185m         0         1             Magnesium         ppm         ASTM D5185m         950         567             Calcium         ppm         ASTM D5185m         1050         1810             Phosphorus         ppm         ASTM D5185m         995         1114             Zinc         ppm         ASTM D5185m         1180         1351             Sulfur         ppm         ASTM D5185m         2600         3052             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         9             Sodium         ppm         ASTM D5185m         9             Potassium         ppm         ASTM D5185m         9             INFRA-RED         method         limit/base         current         history1	Boron	ppm	ASTM D5185m	2	24		
Manganese         ppm         ASTM D5185m         0         1             Magnesium         ppm         ASTM D5185m         950         567             Calcium         ppm         ASTM D5185m         1050         1810             Phosphorus         ppm         ASTM D5185m         995         1114             Zinc         ppm         ASTM D5185m         1180         1351             Sulfur         ppm         ASTM D5185m         2600         3052             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         6             Sodium         ppm         ASTM D5185m         9             Potassium         ppm         ASTM D5185m         9             Potassium         ppm         ASTM D5185m         >20         20             Soot %         %         *ASTM D7844         >3         0.8	Barium	ppm	ASTM D5185m	0	0		
Magnesium         ppm         ASTM D5185m         950         567             Calcium         ppm         ASTM D5185m         1050         1810             Phosphorus         ppm         ASTM D5185m         995         1114             Zinc         ppm         ASTM D5185m         1180         1351             Sulfur         ppm         ASTM D5185m         2600         3052             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         6             Sodium         ppm         ASTM D5185m         9             Potassium         ppm         ASTM D5185m         >20         20             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.8             Sulfation         Abs/.1mm         *ASTM D7415         >30 <td>Molybdenum</td> <td>ppm</td> <td>ASTM D5185m</td> <td>50</td> <td>54</td> <td></td> <td></td>	Molybdenum	ppm	ASTM D5185m	50	54		
Calcium         ppm         ASTM D5185m         1 050         1810             Phosphorus         ppm         ASTM D5185m         995         1114             Zinc         ppm         ASTM D5185m         1180         1351             Sulfur         ppm         ASTM D5185m         2600         3052             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         6             Sodium         ppm         ASTM D5185m         9             Potassium         ppm         ASTM D5185m         >20         20             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.8             Nitration         Abs/cm         *ASTM D7624         >20         11.9             Sulfation         Abs/.1mm         *ASTM D7415         >3	Manganese	ppm	ASTM D5185m	0	1		
Phosphorus         ppm         ASTM D5185m         995         1114             Zinc         ppm         ASTM D5185m         1180         1351             Sulfur         ppm         ASTM D5185m         2600         3052             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         6             Sodium         ppm         ASTM D5185m         9             Potassium         ppm         ASTM D5185m         >20         20             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.8             Nitration         Abs/cm         *ASTM D7624         >20         11.9             Sulfation         Abs/.1mm         *ASTM D7415         >30         25.2             FLUID DEGRADATION         method         limit/ba	Magnesium	ppm	ASTM D5185m	950	567		
Zinc	Calcium	ppm	ASTM D5185m	1050	1810		
Sulfur         ppm         ASTM D5185m         2600         3052             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         6             Sodium         ppm         ASTM D5185m         9             Potassium         ppm         ASTM D5185m         >20         20             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.8             Soilfation         Abs/.1mm         *ASTM D7624         >20         11.9             FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         27.7	Phosphorus	ppm	ASTM D5185m	995	1114		
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         6             Sodium         ppm         ASTM D5185m         9             Potassium         ppm         ASTM D5185m         >20         20             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.8             Nitration         Abs/cm         *ASTM D7624         >20         11.9             Sulfation         Abs/.1mm         *ASTM D7415         >30         25.2             FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         27.7	Zinc	ppm	ASTM D5185m	1180	1351		
Silicon         ppm         ASTM D5185m         >25         6             Sodium         ppm         ASTM D5185m         9             Potassium         ppm         ASTM D5185m         >20         20             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.8             Nitration         Abs/cm         *ASTM D7624         >20         11.9             Sulfation         Abs/.1mm         *ASTM D7415         >30         25.2             FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         27.7	Sulfur	ppm	ASTM D5185m	2600	3052		
Sodium	CONTAMINAN	ITS	method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185m         >20         20             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.8             Nitration         Abs/cm         *ASTM D7624         >20         11.9             Sulfation         Abs/.1mm         *ASTM D7415         >30         25.2             FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         27.7	Silicon	ppm	ASTM D5185m	>25	6		
INFRA-RED	Sodium	ppm	ASTM D5185m		9		
Soot %         %         *ASTM D7844 >3         0.8             Nitration         Abs/cm         *ASTM D7624 >20         11.9             Sulfation         Abs/.1mm         *ASTM D7415 >30         25.2             FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414 >25         27.7	Potassium	ppm	ASTM D5185m	>20	20		
Nitration         Abs/cm         *ASTM D7624         >20         11.9             Sulfation         Abs/.1mm         *ASTM D7415         >30         25.2             FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         27.7	INFRA-RED		method	limit/base	current	history1	history2
Sulfation         Abs/.1mm         *ASTM D7415         >30         25.2             FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         27.7	Soot %	%	*ASTM D7844	>3	0.8		
Sulfation         Abs/.1mm         *ASTM D7415         >30         25.2             FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         27.7	Nitration	Abs/cm	*ASTM D7624	>20	11.9		
Oxidation	Sulfation		*ASTM D7415	>30			
	FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	27.7		
				_			



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

: PCA0123296 Lab Number : 06216624 Unique Number : 11089488

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** 

: 21 Jun 2024 : 24 Jun 2024

Diagnosed : 24 Jun 2024 - Sean Felton Test Package : MOB 1 ( Additional Tests: TBN )

To discuss this sample report, contact Customer Service at 1-800-237-1369.

**MILLER TRUCK LEASING #117** 

2666 LEISCZS BRIDGE RD LEESPORT, PA US 19533

Contact: JAMEY RITZ jritz@millertransgroup.com

\* - 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)

Report Id: MILLEEPA [WUSCAR] 06216624 (Generated: 06/24/2024 10:39:02) Rev: 1

Contact/Location: JAMEY RITZ - MILLEEPA

T:

F: