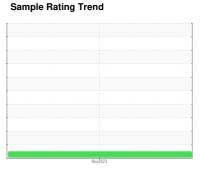


# **OIL ANALYSIS REPORT**



**NORMAL** 



357259

Component **Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (--- G

## 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.

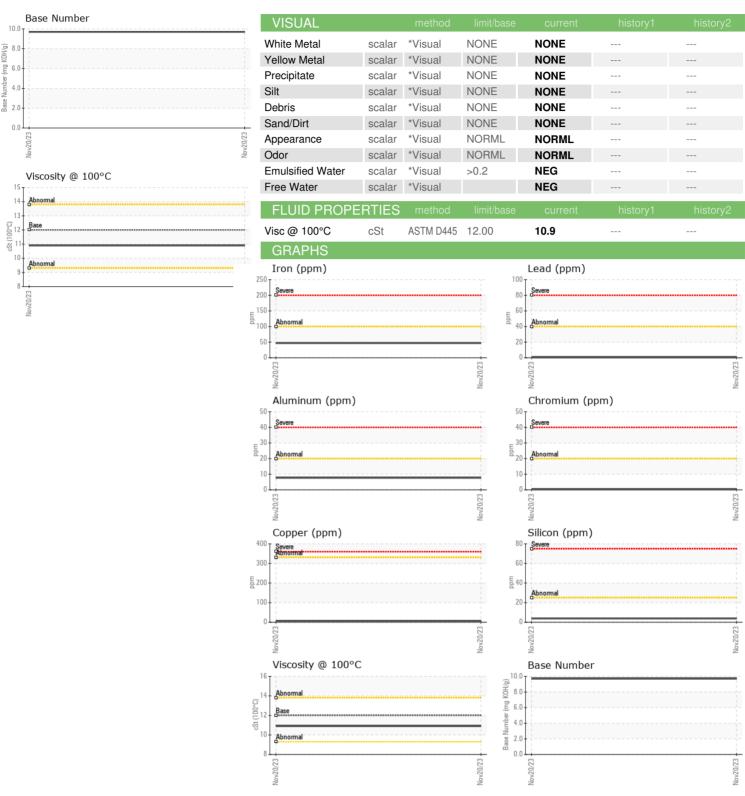
### **Fluid Condition**

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

SAMPLE INFORMATION   method   limit/base   current   history1   history2   sample Date   Client Info   20 Nov 2023         Machine Age   mls   Client Info   5553	•• >						
Cample Number   Client Info   PCA0097357   Cample Date   Client Info   20 Nov 2023   Client Info   113777   Client Info   5553   Client Info   5553   Client Info   5553   Client Info   Changed   Client Info   Client Info	AL)				Nov2023		
Cample Date   Client Info   20 Nov 2023	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Machine Age   mls	Sample Number		Client Info		PCA0097357		
Dil Age	Sample Date		Client Info		20 Nov 2023		
Contact   Cont		mls	Client Info		113777		
CONTAMINATION		mls	Client Info		5553		
CONTAMINATION   method   limit/base   current   history1   history2	-		Client Info		_		
Value	Sample Status				NORMAL		
Wester   WC Method   So.2   NEG   Signor   WC Method   NEG   WC	CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
WEAR METALS	-uel		WC Method	>5	<1.0		
WEAR METALS   method   limit/base   current   history1   history2	Water		WC Method	>0.2	NEG		
Chromium	Glycol		WC Method		NEG		
ASTM D5185m   >20	WEAR METAL	_S	method	limit/base	current	history1	history2
Strickel	ron	ppm	ASTM D5185m	>100	47		
Silver	Chromium	ppm	ASTM D5185m	>20	<1		
Aluminum	Nickel	ppm		>4	0		
Aluminum		ppm	ASTM D5185m		1		
ASTM D5185m	Silver	ppm	ASTM D5185m	>3	0		
Copper	Aluminum	ppm	ASTM D5185m	>20	8		
ASTM D5185m   Post	_ead	ppm	ASTM D5185m	>40	<1		
Anadium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0             Barium         ppm         ASTM D5185m         0         61             Manganese         ppm         ASTM D5185m         0         <1             Manganesium         ppm         ASTM D5185m         950         1059             Manganesium         ppm         ASTM D5185m         950         1059             Phosphorus         ppm         ASTM D5185m         995         1150             Phosphorus         ppm         ASTM D5185m         2600         3633             Zince         ppm         ASTM D5185m         2600         3633             CONTAMINANTS         method         limit/base         current <th< td=""><td></td><td>ppm</td><td>ASTM D5185m</td><td>&gt;330</td><td>7</td><td></td><td></td></th<>		ppm	ASTM D5185m	>330	7		
ADDITIVES		ppm		>15			
ADDITIVES		ppm			-		
Soron   ppm   ASTM D5185m   2   7       Sarium   ppm   ASTM D5185m   0   0   0           Molybdenum   ppm   ASTM D5185m   50   61       Manganese   ppm   ASTM D5185m   0   <1           Manganesium   ppm   ASTM D5185m   950   1059		ppm	ASTM D5185m		0		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         50         61             Manganese         ppm         ASTM D5185m         0         <1	Boron	ppm	ASTM D5185m	2	7		
Manganese         ppm         ASTM D5185m         0         <1             Magnesium         ppm         ASTM D5185m         950         1059             Calcium         ppm         ASTM D5185m         1050         1136             Phosphorus         ppm         ASTM D5185m         995         1150             Zinc         ppm         ASTM D5185m         1180         1298             Sulfur         ppm         ASTM D5185m         2600         3633             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         4             Sodium         ppm         ASTM D5185m         2             Potassium         ppm         ASTM D5185m         20         4             Potassium         ppm         ASTM D5185m         20         4             Soot %         %         *ASTM D7844         >3	Barium	ppm	ASTM D5185m	0	0		
Magnesium         ppm         ASTM D5185m         950         1059             Calcium         ppm         ASTM D5185m         1050         1136             Phosphorus         ppm         ASTM D5185m         995         1150             Zinc         ppm         ASTM D5185m         1180         1298             Sulfur         ppm         ASTM D5185m         2600         3633             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         25         4             Sodium         ppm         ASTM D5185m         20         4             Potassium         ppm         ASTM D5185m         >20         4             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7624         >20         8.6             Sulfation         Abs/:mm         *ASTM D7415	Molybdenum	ppm			61		
Calcium         ppm         ASTM D5185m         1050         1136             Phosphorus         ppm         ASTM D5185m         995         1150             Zinc         ppm         ASTM D5185m         1180         1298             Sulfur         ppm         ASTM D5185m         2600         3633             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         4             Godium         ppm         ASTM D5185m         2             Potassium         ppm         ASTM D5185m         >20         4             Potassium         ppm         ASTM D5185m         >20         4             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.8             Silicon         Abs/:mm         *ASTM D7845         >30	•	ppm	ASTM D5185m		<1		
Phosphorus         ppm         ASTM D5185m         995         1150             Zinc         ppm         ASTM D5185m         1180         1298             Sulfur         ppm         ASTM D5185m         2600         3633             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         4             Godium         ppm         ASTM D5185m         2             Potassium         ppm         ASTM D5185m         20         4             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.8             Silicon         Abs/cm         *ASTM D7415         >30         19.0             FLUID DEGRADATION         method         limit/base         current         history1         history2           Dxidation         Abs/:1mm         *ASTM D7414         >25<	Magnesium	ppm	ASTM D5185m	950			
Time		ppm	ASTM D5185m				
Sulfur         ppm         ASTM D5185m         2600         3633             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         4             Sodium         ppm         ASTM D5185m         2              Potassium         ppm         ASTM D5185m         >20         4             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.8             Soulfation         Abs/.1mm         *ASTM D7624         >20         8.6             FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         15.6		ppm			1150		
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         4             Sodium         ppm         ASTM D5185m         2             Potassium         ppm         ASTM D5185m         >20         4             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.8             Sulfration         Abs/.mm         *ASTM D7624         >20         8.6             Sulfation         Abs/.1mm         *ASTM D7415         >30         19.0             FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         15.6		ppm					
Solition   ppm   ASTM D5185m   >25   4			ASTM D5185m	2600	3633		
Sodium	CONTAMINAN	NTS	method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185m         >20         4             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.8             Nitration         Abs/cm         *ASTM D7624         >20         8.6             Sulfation         Abs/.1mm         *ASTM D7415         >30         19.0             FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         15.6	Silicon	ppm	ASTM D5185m	>25	4		
INFRA-RED		ppm			2		
Soot %	Potassium	ppm	ASTM D5185m	>20	4		
Nitration         Abs/cm         *ASTM D7624         >20         8.6             Sulfation         Abs/.1mm         *ASTM D7415         >30         19.0             FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         15.6	INFRA-RED		method	limit/base	current	history1	history2
Sulfation         Abs/.1mm         *ASTM D7415         >30         19.0             FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         15.6	Soot %	%	*ASTM D7844	>3	0.8		
FLUID DEGRADATION method limit/base current history1 history2  Oxidation Abs/.1mm *ASTM D7414 >25 15.6	Vitration	Abs/cm	*ASTM D7624	>20	8.6		
Oxidation	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0		
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 9.7	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6		
	Base Number (BN)	mg KOH/g	ASTM D2896		9.7		



## **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: PCA0097357 : 06047629 : 10808237

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 29 Dec 2023 Recieved : 02 Jan 2024 Diagnosed

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.

**MILLER TRUCK LEASING #123** 

**66 KELLER AVENUE** LANCASTER, PA US 17601

Contact: RON ROBERTS rroberts@millertransgroup.com T: (717)945-6205

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (717)945-5818 Contact/Location: RON ROBERTS - MILLAN