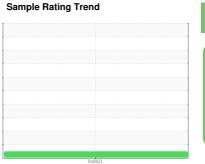


# **OIL ANALYSIS REPORT**



**NORMAL** 



5066 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.

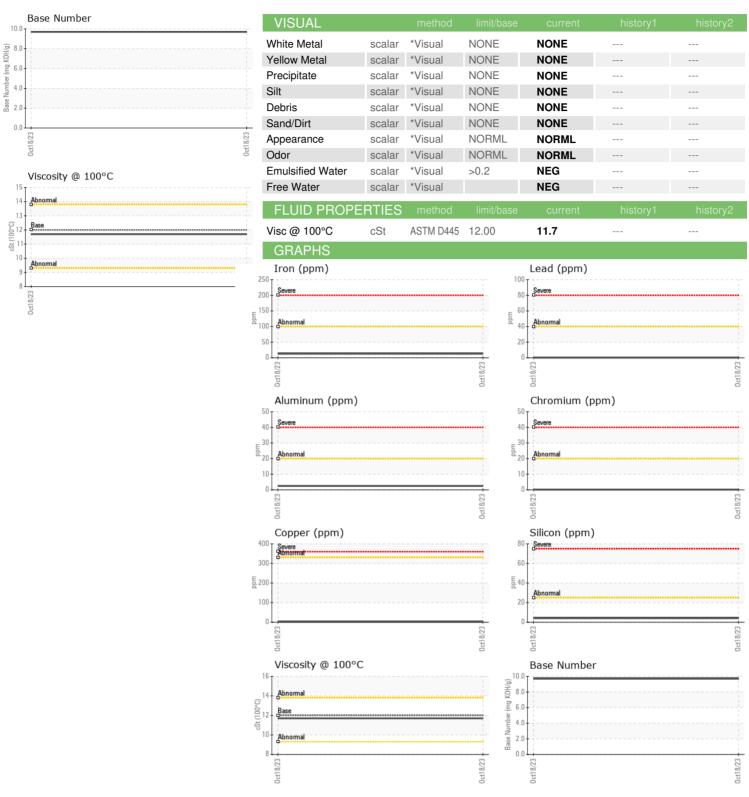
### **Fluid Condition**

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

Sample Number   Client Info   PCA0110420							
Sample Number   Client Info   PCA0110420	AL)				Oct2023		
Client Info	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age   mls   Client Info   0   142839	Sample Number		Client Info		PCA0110420		
Dit Changed	Sample Date		Client Info		18 Oct 2023		
Client Info   Changed   Client Info   Changed   NORMAL   CONTAMINATION   Method   Imit/base   current   history1   history1   history1   Mater   WC Method   So.	Machine Age	mls	Client Info		142839		
CONTAMINATION   method   minit/base   current   history1   history1   water   WC Method   >5   <1.0	Dil Age	mls	Client Info		0		
CONTAMINATION	Oil Changed		Client Info		Changed		
Vicinity   Vicinity	Sample Status				NORMAL		
Wester   W.C. Method   V.C.   NEG	CONTAMINAT	ION	method	limit/base	current	history1	history2
WEAR METALS	uel		WC Method	>5	<1.0		
WEAR METALS         method         limit/base         current         history1         history1           orn         ppm         ASTM D5185m         >100         13             Chromium         ppm         ASTM D5185m         >20         <1	Vater		WC Method	>0.2	NEG		
Chromium	Glycol		WC Method		NEG		
Chromium   ppm   ASTM D5185m   >20	WEAR METAL	.S	method	limit/base	current	history1	history2
STM D5185m   STM	ron	ppm	ASTM D5185m	>100	13		
ASTM D5185m   D	Chromium	ppm	ASTM D5185m	>20	<1		
Silver	Nickel	ppm	ASTM D5185m	>4	0		
Alluminum	- itanium	ppm	ASTM D5185m		0		
December   December	Silver	ppm	ASTM D5185m	>3	0		
April	Aluminum	ppm	ASTM D5185m	>20	2		
Description	_ead	ppm	ASTM D5185m	>40	<1		
Annadium	Copper	ppm	ASTM D5185m	>330	2		
Anadium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history3           Boron         ppm         ASTM D5185m         2         24             Barium         ppm         ASTM D5185m         0         0             Molybdenum         ppm         ASTM D5185m         50         63             Magnesium         ppm         ASTM D5185m         950         876             Calcium         ppm         ASTM D5185m         995         1087             Phosphorus         ppm         ASTM D5185m         995         1087             Cinc         ppm         ASTM D5185m         2600         3053             Cinc         ppm         ASTM D5185m         >25         4             CONTAMINANTS         method         limit/base         current         history1			ASTM D5185m	>15	<1		
Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history3           Boron         ppm         ASTM D5185m         2         24             Barium         ppm         ASTM D5185m         0         0             Molybdenum         ppm         ASTM D5185m         50         63             Manganese         ppm         ASTM D5185m         0         <1	/anadium		ASTM D5185m		0		
Soron   ppm   ASTM D5185m   2   24	Cadmium		ASTM D5185m		0		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         50         63             Manganese         ppm         ASTM D5185m         0         <1             Magnesium         ppm         ASTM D5185m         950         876             Calcium         ppm         ASTM D5185m         1050         1190             Phosphorus         ppm         ASTM D5185m         995         1087             Zinc         ppm         ASTM D5185m         995         1087             Zinc         ppm         ASTM D5185m         2600         3053             Contamination         ppm         ASTM D5185m         >25         4             Colicon         ppm         ASTM D5185m         >25         4             Potassium         ppm         ASTM D5185m         >20         0             Potassium         ppm         ASTM D5185m         >20         0             Potassium         ppm         ASTM D5185	Boron	ppm	ASTM D5185m	2	24		
Manganese         ppm         ASTM D5185m         0         <1             Magnesium         ppm         ASTM D5185m         950         876             Calcium         ppm         ASTM D5185m         1050         1190             Phosphorus         ppm         ASTM D5185m         995         1087             Zinc         ppm         ASTM D5185m         2600         3053             Sulfur         ppm         ASTM D5185m         2600         3053             CONTAMINANTS         method         limit/base         current         history1         history           Silicon         ppm         ASTM D5185m         >25         4             Godium         ppm         ASTM D5185m         >20         0             Potassium         ppm         ASTM D5185m         >20         0             INFRA-RED         method         limit/base         current         history1         history           Soot %         *ASTM D7624         >20	Barium	ppm	ASTM D5185m	0	0		
Manganese         ppm         ASTM D5185m         0         <1             Magnesium         ppm         ASTM D5185m         950         876             Calcium         ppm         ASTM D5185m         1050         1190             Phosphorus         ppm         ASTM D5185m         995         1087             Zinc         ppm         ASTM D5185m         995         1087             Sulfur         ppm         ASTM D5185m         2600         3053             CONTAMINANTS         method         limit/base         current         history1         history           Silicon         ppm         ASTM D5185m         >25         4             Goldium         ppm         ASTM D5185m         >20         0             Potassium         ppm         ASTM D5185m         >20         0             Potassium         ppm         ASTM D5185m         >20         0             Potassium         ppm         ASTM D7844	Molybdenum	ppm	ASTM D5185m	50	63		
Magnesium         ppm         ASTM D5185m         950         876             Calcium         ppm         ASTM D5185m         1050         1190             Phosphorus         ppm         ASTM D5185m         995         1087             Zinc         ppm         ASTM D5185m         1180         1240             Sulfur         ppm         ASTM D5185m         2600         3053             CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >25         4             Potassium         ppm         ASTM D5185m         >20         0             Potassium         ppm         ASTM D5185m         >20         0             INFRA-RED         method         limit/base         current         history1         history           Soot %         %         *ASTM D7844         >3         0.8             Sulfation         Abs/cm         *ASTM D7845	-		ASTM D5185m	0	<1		
Calcium         ppm         ASTM D5185m         1050         1190             Phosphorus         ppm         ASTM D5185m         995         1087             Pinc         ppm         ASTM D5185m         1180         1240             Sulfur         ppm         ASTM D5185m         2600         3053             CONTAMINANTS         method         limit/base         current         history1         history           Solicon         ppm         ASTM D5185m         >25         4             Potassium         ppm         ASTM D5185m         >20         0             Boot %         %         *ASTM D7844	•		ASTM D5185m	950	876		
Phosphorus         ppm         ASTM D5185m         995         1087             Zinc         ppm         ASTM D5185m         1180         1240             Sulfur         ppm         ASTM D5185m         2600         3053             CONTAMINANTS         method         limit/base         current         history1         history           Soliicon         ppm         ASTM D5185m         >25         4             Soliicon         ppm         ASTM D5185m         >20         0             Potassium         ppm         ASTM D5185m         >20         0             INFRA-RED         method         limit/base         current         history1         history           Soot %         %         *ASTM D7844         >3         0.8             Sulfation         Abs/.1mm         *ASTM D7415         >30         19.3             FLUID DEGRADATION         method         limit/base         current         history1         history           Distory         Abs/.1mm         *ASTM D74	_		ASTM D5185m	1050	1190		
Contamination   Contaminatio   Contamination   Contamination   Contamination   Contamination	Phosphorus		ASTM D5185m	995	1087		
Sulfur         ppm         ASTM D5185m         2600         3053             CONTAMINANTS         method         limit/base         current         history1         history3           Silicon         ppm         ASTM D5185m         >25         4             Sodium         ppm         ASTM D5185m         >20         0             Potassium         ppm         ASTM D5185m         >20         0             INFRA-RED         method         limit/base         current         history1         history           Goot %         %         *ASTM D7844         >3         0.8             Sulfration         Abs/cm         *ASTM D7624         >20         7.6             FLUID DEGRADATION         method         limit/base         current         history1         history           Oxidation         Abs/.1mm         *ASTM D7414         >25         14.9			ASTM D5185m	1180	1240		
Solicon   ppm   ASTM D5185m   >25   4	Sulfur		ASTM D5185m	2600	3053		
Sodium   ppm   ASTM D5185m   <1         Potassium   ppm   ASTM D5185m   >20   0       INFRA-RED   method   limit/base   current   history1   history2     Soot %	CONTAMINAN	ITS	method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185m         >20         0             INFRA-RED         method         limit/base         current         history1         history           Soot %         %         *ASTM D7844         >3         0.8             Sultration         Abs/cm         *ASTM D7624         >20         7.6             Sulfation         Abs/.1mm         *ASTM D7415         >30         19.3             FLUID DEGRADATION         method         limit/base         current         history1         history           Dxidation         Abs/.1mm         *ASTM D7414         >25         14.9	Silicon	ppm	ASTM D5185m	>25	4		
Potassium         ppm         ASTM D5185m         >20         0             INFRA-RED         method         limit/base         current         history1         history           Soot %         %         *ASTM D7844         >3         0.8             Sitration         Abs/cm         *ASTM D7624         >20         7.6             Sulfation         Abs/.1mm         *ASTM D7415         >30         19.3             FLUID DEGRADATION         method         limit/base         current         history1         history           Oxidation         Abs/.1mm         *ASTM D7414         >25         14.9	Sodium		ASTM D5185m		<1		
Goot %         %         *ASTM D7844         >3         0.8             Vitration         Abs/cm         *ASTM D7624         >20         7.6             Sulfation         Abs/.1mm         *ASTM D7415         >30         19.3             FLUID DEGRADATION         method         limit/base         current         history1         history           Oxidation         Abs/.1mm         *ASTM D7414         >25         14.9	Potassium			>20			
Nitration         Abs/cm         *ASTM D7624         >20         7.6             Sulfation         Abs/.1mm         *ASTM D7415         >30         19.3             FLUID DEGRADATION         method         limit/base         current         history1         history           Dxidation         Abs/.1mm         *ASTM D7414         >25         14.9	INFRA-RED		method	limit/base	current	history1	history2
Sulfation         Abs/.1mm         *ASTM D7415         >30         19.3             FLUID DEGRADATION         method         limit/base         current         history1         history           Dxidation         Abs/.1mm         *ASTM D7414         >25         14.9	Soot %	%	*ASTM D7844	>3	0.8		
Sulfation         Abs/.1mm         *ASTM D7415         >30         19.3             FLUID DEGRADATION         method         limit/base         current         history1         history           Dxidation         Abs/.1mm         *ASTM D7414         >25         14.9	Vitration	Abs/cm	*ASTM D7624	>20	7.6		
Oxidation	Sulfation	Abs/.1mm	*ASTM D7415	>30			
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	 Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9		
JASE INVITIDE (DIV) 110 NOTIVE MOTIVE DE030 9.7	Base Number (BN)	mg KOH/g	ASTM D2896		9.7		



## **OIL ANALYSIS REPORT**







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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06052527

: PCA0110420 : 10818476

Recieved Diagnosed

: 05 Jan 2024 : 08 Jan 2024 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** 

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