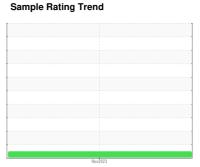


# **OIL ANALYSIS REPORT**



NORMAL



Machine Id **341325** 

Component **Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (--- 0

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

### Contamination

There is no indication of any contamination in the

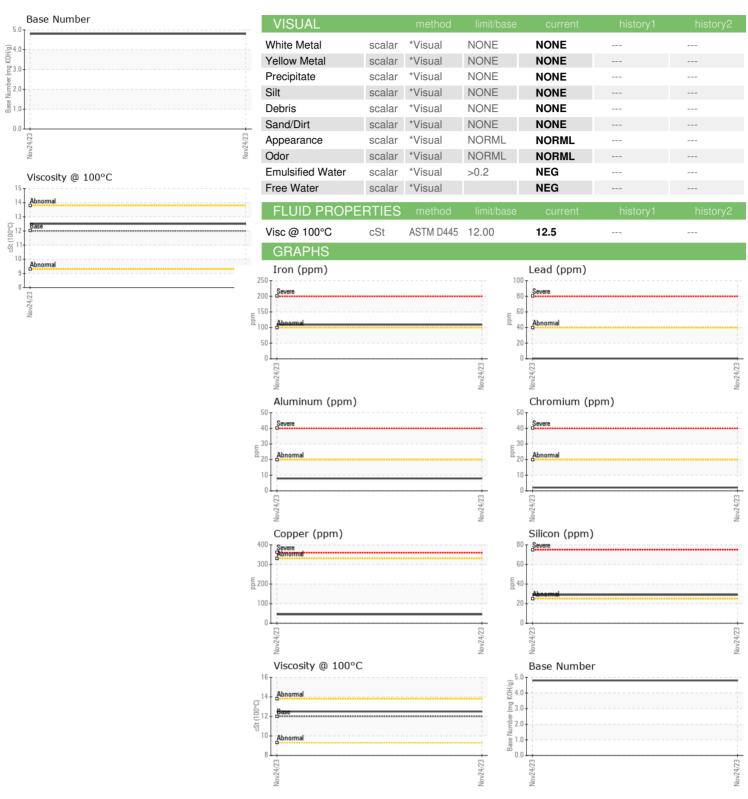
### **Fluid Condition**

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

Sample Number   Client Info   PCA0105636							
Sample Number   Client Info   PCA0105636	AL)				Nov2023		
Client Info   24 Nov 2023           Machine Age   mls   Client Info   23385         Oil Age   mls   Client Info   0   0       Oil Changed   Client Info   N/A         Oil Changed   Client Info   N/A         Sample Status   NORMAL         CONTAMINATION   method   limit/base   current   history1   history1     Fuel   WC Method   >5   <1.0       Water   WC Method   >0.2   NEG         Gligvol   WC Method   NEG         WEAR METALS   method   limit/base   current   history1   history1     WEAR METALS   method   limit/base   current   history1   history2     WEAR METALS   method   limit/base   current   history1   history3     WEAR METALS   method   limit/base   current   history1   history3   history4   method   li	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		PCA0105636		
Dil Changed	Sample Date		Client Info		24 Nov 2023		
Contact   Cont	Machine Age	mls	Client Info		23385		
CONTAMINATION   method   limit/base   current   history1   history5   limit/base   current   history1   history5   cue   wc Method   vo.2   NEG   vo.2   NEG   vo.3   limit/base   current   history1   history5   limit/base   vo.3   limit/base   vo.3   vo.3	Oil Age	mls	Client Info		0		
CONTAMINATION	Oil Changed		Client Info		N/A		
Fuel	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         109             Chromium         ppm         ASTM D5185m         >20         2             Silver         ppm         ASTM D5185m         >4         <1	Vater		WC Method	>0.2	NEG		
Chromium	Glycol		WC Method		NEG		
Chromium   ppm   ASTM D5185m   >20   2	WEAR METAL	.S	method	limit/base	current	history1	history2
Strain   S	ron	ppm	ASTM D5185m	>100	109		
ASTM D5185m	Chromium	ppm	ASTM D5185m	>20	2		
Silver	lickel	ppm	ASTM D5185m	>4	<1		
Alluminum	- itanium	ppm	ASTM D5185m		<1		
December   December	Silver	ppm	ASTM D5185m	>3	0		
Description	Aluminum	ppm	ASTM D5185m	>20	8		
A	_ead	ppm	ASTM D5185m	>40	<1		
Acade   Acad	Copper	ppm	ASTM D5185m	>330	45		
Anadium			ASTM D5185m	>15	<1		
Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         2         31             Barium         ppm         ASTM D5185m         0         4             Molybdenum         ppm         ASTM D5185m         50         118             Manganese         ppm         ASTM D5185m         0         7             Magnesium         ppm         ASTM D5185m         950         707             Phosphorus         ppm         ASTM D5185m         1050         1253             Phosphorus         ppm         ASTM D5185m         995         747             Phosphorus         ppm         ASTM D5185m         2600         2680             Cinc         ppm         ASTM D5185m         2600         2680             CONTAMINANTS         method         limit/base         curre	/anadium		ASTM D5185m		<1		
Soron   ppm   ASTM D5185m   2   31	Cadmium		ASTM D5185m		0		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Sarium	Boron	ppm	ASTM D5185m	2	31		
Manganese         ppm         ASTM D5185m         0         7             Magnesium         ppm         ASTM D5185m         950         707             Calcium         ppm         ASTM D5185m         1050         1253             Phosphorus         ppm         ASTM D5185m         995         747             Zinc         ppm         ASTM D5185m         995         747             Zinc         ppm         ASTM D5185m         2600         2680             Zinc         ppm         ASTM D5185m         2600         2680             CONTAMINANTS         method         limit/base         current         history1         history           Silicon         ppm         ASTM D5185m         >25         29             Godium         ppm         ASTM D5185m         7             Potassium         ppm         ASTM D5185m         7             Potassium         ppm         ASTM D5185m         >20         19	Barium		ASTM D5185m	0	4		
Manganese         ppm         ASTM D5185m         0         7             Magnesium         ppm         ASTM D5185m         950         707             Calcium         ppm         ASTM D5185m         1050         1253             Phosphorus         ppm         ASTM D5185m         995         747             Zinc         ppm         ASTM D5185m         995         747             Sulfur         ppm         ASTM D5185m         2600         2680             CONTAMINANTS         method         limit/base         current         history1         history           Solicon         ppm         ASTM D5185m         >25         29             Potassium         ppm         ASTM D5185m         7             Potassium         ppm         ASTM D5185m         >20         19             Potassium         ppm         ASTM D7844         >3         0.7             Soot %         %         *ASTM D7844         >3	Molybdenum		ASTM D5185m	50	118		
Magnesium         ppm         ASTM D5185m         950         707             Calcium         ppm         ASTM D5185m         1050         1253             Phosphorus         ppm         ASTM D5185m         995         747             Zinc         ppm         ASTM D5185m         995         747             Sulfur         ppm         ASTM D5185m         2600         2680             CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >25         29             Potassium         ppm         ASTM D5185m         >20         19             Potassium         ppm         ASTM D5185m         >20         19             INFRA-RED         method         limit/base         current         history1         history           Soot %         %         *ASTM D7844         >3         0.7             Sulfation         Abs/.1mm         *ASTM D7415 <td>-</td> <td></td> <td>ASTM D5185m</td> <td>0</td> <td>7</td> <td></td> <td></td>	-		ASTM D5185m	0	7		
Calcium         ppm         ASTM D5185m         1050         1253             Phosphorus         ppm         ASTM D5185m         995         747             Pinc         ppm         ASTM D5185m         1180         892             Sulfur         ppm         ASTM D5185m         2600         2680             CONTAMINANTS         method         limit/base         current         history1         history1           Solicon         ppm         ASTM D5185m         >25         29             Potassium         ppm         ASTM D5185m         7             Potassium         ppm         ASTM D5185m         >20         19             INFRA-RED         method         limit/base         current         history1         history           Soot %         %         *ASTM D7844         >3         0.7             Soulfation         Abs/:1mm         *ASTM D7845         >30         23.7             FLUID DEGRADATION         method         limit/base	•				707		
Phosphorus         ppm         ASTM D5185m         995         747             Zinc         ppm         ASTM D5185m         1180         892             Sulfur         ppm         ASTM D5185m         2600         2680             CONTAMINANTS         method         limit/base         current         history1         history           Solicon         ppm         ASTM D5185m         >25         29             Solicon         ppm         ASTM D5185m         7             Potassium         ppm         ASTM D5185m         >20         19             INFRA-RED         method         limit/base         current         history1         history           Soot %         %         *ASTM D7844         >3         0.7             Soulfation         Abs/:mm         *ASTM D7415         >30         23.7             FLUID DEGRADATION         method         limit/base         current         history1         history           Oxidation         Abs/:1mm         *ASTM D7414         >	-		ASTM D5185m	1050	1253		
Soulfur   ppm   ASTM D5185m   1180   892							
Sulfur         ppm         ASTM D5185m         2600         2680             CONTAMINANTS         method         limit/base         current         history1         history           Silicon         ppm         ASTM D5185m         >25         29             Godium         ppm         ASTM D5185m         7              Potassium         ppm         ASTM D5185m         >20         19             INFRA-RED         method         limit/base         current         history1         history           Goot %         %         *ASTM D7844         >3         0.7             Solfration         Abs/cm         *ASTM D7624         >20         13.8             FLUID DEGRADATION         method         limit/base         current         history1         history           Oxidation         Abs/.1mm         *ASTM D7414         >25         24.1					892		
Solicon   ppm   ASTM D5185m   >25   29							
Sodium         ppm         ASTM D5185m         7             Potassium         ppm         ASTM D5185m         >20         19             INFRA-RED         method         limit/base         current         history1         history           Soot %         %         *ASTM D7844         >3         0.7             Vitration         Abs/cm         *ASTM D7624         >20         13.8             Sulfation         Abs/.1mm         *ASTM D7415         >30         23.7             FLUID DEGRADATION         method         limit/base         current         history1         history           Dxidation         Abs/.1mm         *ASTM D7414         >25         24.1	CONTAMINAN	ITS	method	limit/base	current	history1	history2
Sodium         ppm         ASTM D5185m         7             Potassium         ppm         ASTM D5185m         >20         19             INFRA-RED         method         limit/base         current         history1         history1           Soot %         %         *ASTM D7844         >3         0.7             Vitration         Abs/cm         *ASTM D7624         >20         13.8             Sulfation         Abs/.1mm         *ASTM D7415         >30         23.7             FLUID DEGRADATION         method         limit/base         current         history1         history           Oxidation         Abs/.1mm         *ASTM D7414         >25         24.1	Silicon	ppm	ASTM D5185m	>25	29		
Potassium         ppm         ASTM D5185m         >20         19             INFRA-RED         method         limit/base         current         history1         history           Soot %         %         *ASTM D7844         >3         0.7             Vitration         Abs/cm         *ASTM D7624         >20         13.8             Sulfation         Abs/.1mm         *ASTM D7415         >30         23.7             FLUID DEGRADATION         method         limit/base         current         history1         history           Oxidation         Abs/.1mm         *ASTM D7414         >25         24.1	Sodium		ASTM D5185m		7		
Soot %	Potassium			>20	19		
Nitration         Abs/cm         *ASTM D7624         >20         13.8             Sulfation         Abs/.1mm         *ASTM D7415         >30         23.7             FLUID DEGRADATION         method         limit/base         current         history1         history           Dxidation         Abs/.1mm         *ASTM D7414         >25         24.1	INFRA-RED		method	limit/base	current	history1	history2
Sulfation         Abs/.1mm         *ASTM D7415         >30         23.7             FLUID DEGRADATION         method         limit/base         current         history1         history           Dxidation         Abs/.1mm         *ASTM D7414         >25         24.1	Soot %	%	*ASTM D7844	>3	0.7		
Sulfation         Abs/.1mm         *ASTM D7415         >30         23.7             FLUID DEGRADATION         method         limit/base         current         history1         history           Dxidation         Abs/.1mm         *ASTM D7414         >25         24.1	Nitration	Abs/cm	*ASTM D7624	>20	13.8		
Oxidation	Sulfation	Abs/.1mm	*ASTM D7415	>30			
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	24.1		
Dase INUITIDE! (DIN)      NOTIVI D2090 4.8	Base Number (BN)	mg KOH/g	ASTM D2896		4.8		



## **OIL ANALYSIS REPORT**







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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0105636 : 06056441 : 10822390

Recieved Diagnosed

: 10 Jan 2024 : 11 Jan 2024 Diagnostician : Don Baldridge

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 #116** 

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