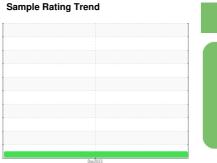


# **OIL ANALYSIS REPORT**



NORMAL



Machine Id **437249** 

Component **Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (--- 0

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

### **Fluid Condition**

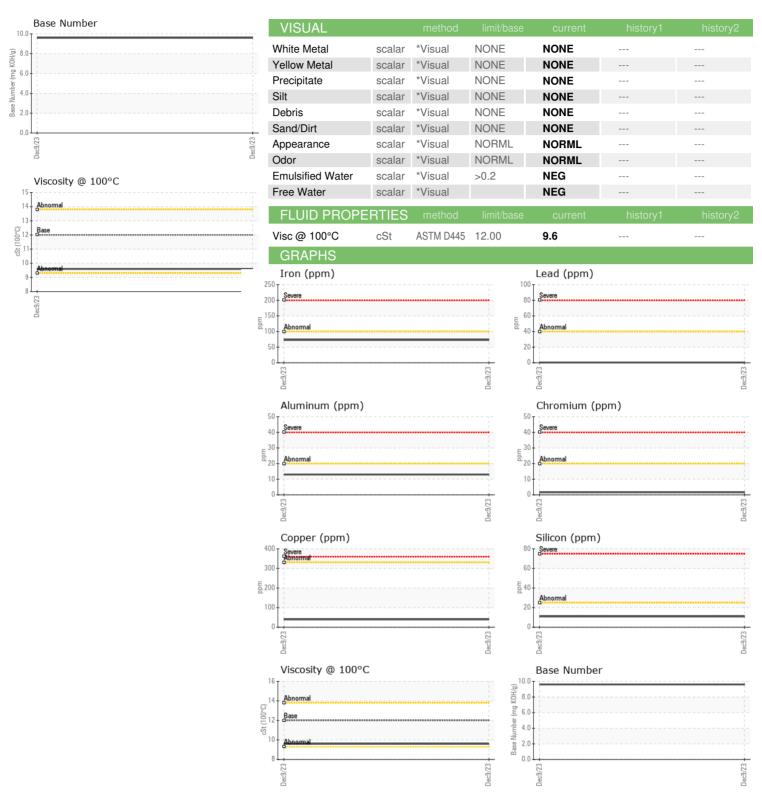
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION   method   limit/base   current   history1   history2   sample Number   Client Info   O9 Dec 2023							, i
Cample Number   Client Info   Dec 2023   Client Info   Os Dec 2024   Client Info   O	AL)				Dec2023		
Cample Date   Client Info   O9 Dec 2023	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age   mls	Sample Number		Client Info		PCA0112270		
Dit Changed	Sample Date		Client Info		09 Dec 2023		
Contact   Cont	Machine Age	mls	Client Info		7541		
CONTAMINATION   method   limit/base   current   history1   history2   cue	Oil Age	mls	Client Info		7541		
CONTAMINATION   method   limit/base   current   history1   history2   current   wc Method   5-5   -1.0	Oil Changed		Client Info		Not Changd		
Vicinity   Vicinity	Sample Status				NORMAL		
Water   WC Method   So.2   NEG   Silycol   WC Method   NEG   WC	CONTAMINAT	ION	method	limit/base	current	history1	history2
WEAR METALS	uel		WC Method	>5	<1.0		
WEAR METALS         method         limit/base         current         history1         history2           ron         ppm         ASTM D5185m         >100         73             chromium         ppm         ASTM D5185m         >20         2             dickel         ppm         ASTM D5185m         >20         1             Silver         ppm         ASTM D5185m         >3         0             Aluminum         ppm         ASTM D5185m         >20         13             Lead         ppm         ASTM D5185m         >20         13             Lead         ppm         ASTM D5185m         >20         13             Copper         ppm         ASTM D5185m         >40         -1             Cin         ppm         ASTM D5185m         >15         4             Cadmium         ppm         ASTM D5185m         2         55             ADDITIVES         method         limit/base         current	Vater		WC Method	>0.2	NEG		
Concord	Glycol		WC Method		NEG		
Schromium	WEAR METAL	S	method	limit/base	current	history1	history2
Side   Pom	on	ppm	ASTM D5185m	>100	73		
Silver   ppm   ASTM D5185m	Chromium	ppm	ASTM D5185m	>20	2		
Silver	lickel	ppm	ASTM D5185m	>4	1		
ASTM D5185m   Page	Titanium	ppm	ASTM D5185m		<1		
December   December	Silver	ppm	ASTM D5185m	>3	0		
Copper	Aluminum	ppm	ASTM D5185m	>20	13		
Tim	.ead	ppm	ASTM D5185m	>40	<1		
Anadium	Copper	ppm	ASTM D5185m	>330	40		
ADDITIVES	in	ppm	ASTM D5185m	>15	4		
ADDITIVES	/anadium	ppm	ASTM D5185m		0		
Soron   ppm   ASTM D5185m   2   55	Cadmium	ppm	ASTM D5185m		<1		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         50         43             Manganese         ppm         ASTM D5185m         0         10             Magnesium         ppm         ASTM D5185m         950         502             Calcium         ppm         ASTM D5185m         1050         1713             Phosphorus         ppm         ASTM D5185m         995         740             Zinc         ppm         ASTM D5185m         919             Sulfur         ppm         ASTM D5185m         2600         2629             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         11             Godium         ppm         ASTM D5185m         3             Potassium         ppm         ASTM D5185m         30         3            Potassium         ppm         ASTM D5185m         >20         35	Boron	ppm	ASTM D5185m	2	55		
Manganese         ppm         ASTM D5185m         0         10             Magnesium         ppm         ASTM D5185m         950         502             Calcium         ppm         ASTM D5185m         1050         1713             Phosphorus         ppm         ASTM D5185m         995         740             Zinc         ppm         ASTM D5185m         1180         919             Sulfur         ppm         ASTM D5185m         2600         2629             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         11             Godium         ppm         ASTM D5185m         3             Potassium         ppm         ASTM D5185m         3             Potassium         ppm         ASTM D5185m         3             Potassium         ppm         ASTM D5185m         >20         35	Barium	ppm	ASTM D5185m	0	13		
Manganese         ppm         ASTM D5185m         0         10             Magnesium         ppm         ASTM D5185m         950         502             Calcium         ppm         ASTM D5185m         1050         1713             Phosphorus         ppm         ASTM D5185m         995         740             Zinc         ppm         ASTM D5185m         1180         919             Sulfur         ppm         ASTM D5185m         2600         2629             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         11             Goldium         ppm         ASTM D5185m         >20         35             Potassium         ppm         ASTM D5185m         >20         35             INFRA-RED         method         limit/base         current         history1         history2           Goot %         *ASTM D7844         >3	Nolybdenum	ppm	ASTM D5185m	50	43		
Calcium         ppm         ASTM D5185m         1050         1713             Phosphorus         ppm         ASTM D5185m         995         740             Zinc         ppm         ASTM D5185m         1180         919             Sulfur         ppm         ASTM D5185m         2600         2629             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         11             Potassium         ppm         ASTM D5185m         3             Potassium         ppm         ASTM D5185m         >20         35             INFRA-RED         method         limit/base         current         history1         history2           Silicon         %         *ASTM D7844         >3         0.3             Silication         Abs/cm         *ASTM D7415         >30         23.3             Silication         Abs/.1mm         *ASTM D7414 <t< td=""><td>-</td><td></td><td>ASTM D5185m</td><td>0</td><td>10</td><td></td><td></td></t<>	-		ASTM D5185m	0	10		
Calcium         ppm         ASTM D5185m         1050         1713             Phosphorus         ppm         ASTM D5185m         995         740             Pinc         ppm         ASTM D5185m         1180         919             Sulfur         ppm         ASTM D5185m         2600         2629             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         11             Sodium         ppm         ASTM D5185m         3             Potassium         ppm         ASTM D5185m         >20         35             INFRA-RED         method         limit/base         current         history1         history2           Soot %         "ASTM D7844         >3         0.3             Sulfation         Abs/:nm         "ASTM D7415         >30         23.3             FLUID DEGRADATION         method         limit/base         current	/lagnesium	ppm	ASTM D5185m	950	502		
Phosphorus	-		ASTM D5185m	1050	1713		
Contamination   Contaminatio   Contamination   Contamination   Contamination   Contamination	Phosphorus		ASTM D5185m	995	740		
Sulfur         ppm         ASTM D5185m         2600         2629             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         11             Sodium         ppm         ASTM D5185m         3             Potassium         ppm         ASTM D5185m         >20         35             INFRA-RED         method         limit/base         current         history1         history2           Goot %         %         *ASTM D7844         >3         0.3             Sulfration         Abs/cm         *ASTM D7624         >20         7.7             FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         21.3			ASTM D5185m	1180	919		
Solicon   ppm   ASTM D5185m   >25   11	Sulfur		ASTM D5185m	2600	2629		
Sodium   ppm   ASTM D5185m   3         Potassium   ppm   ASTM D5185m   >20   35       INFRA-RED   method   limit/base   current   history1   history2     Soot %	CONTAMINAN	ITS	method	limit/base	current	history1	history2
Sodium         ppm         ASTM D5185m         3             Potassium         ppm         ASTM D5185m         >20         35             INFRA-RED         method         limit/base         current         history1         history2           Soot %         *ASTM D7844         >3         0.3             Vitration         Abs/cm         *ASTM D7624         >20         7.7             Sulfation         Abs/.1mm         *ASTM D7415         >30         23.3             FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         21.3	Silicon	ppm	ASTM D5185m	>25	11		
Potassium         ppm         ASTM D5185m         >20         35             INFRA-RED         method         limit/base         current         history1         history2           Boot %         *ASTM D7844         >3         0.3             Vitration         Abs/cm         *ASTM D7624         >20         7.7             Sulfation         Abs/.1mm         *ASTM D7415         >30         23.3             FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         21.3	Sodium		ASTM D5185m		3		
Soot %	Potassium	ppm	ASTM D5185m	>20	35		
Nitration	INFRA-RED		method	limit/base	current	history1	history2
Sulfation         Abs/.1mm         *ASTM D7415         >30         23.3             FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         21.3	Soot %	%	*ASTM D7844	>3	0.3		
Sulfation         Abs/.1mm         *ASTM D7415         >30         23.3             FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         21.3	Vitration	Abs/cm	*ASTM D7624	>20	7.7		
Oxidation Abs/.1mm *ASTM D7414 >25 <b>21.3</b>							
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	 Oxidation	Abs/.1mm	*ASTM D7414	>25	21.3		
	Base Number (BN)	mg KOH/g	ASTM D2896		9.6		

Contact/Location: ROSTY VITER - MILPHINE



## **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number

**Unique Number** 

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0112270 : 06035830 : 10791059

Recieved Diagnosed

: 15 Dec 2023 : 19 Dec 2023 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.

**MILLER TRUCK LEASING #118** 

2196 BENNETT ROAD PHILADELPHIA, PA US 19116

Contact: ROSTY VITER rviter@millertransgroup.com T: (215)552-9832

Contact/Location: ROSTY VITER - MILPHINE

F: (215)552-9892

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