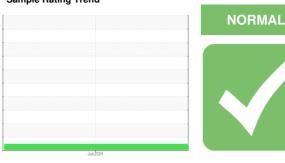


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id **746869** 

Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- GAL)

# DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor.

#### Wear

Metal levels are typical for a new component breaking in.

## Contamination

There is no indication of any contamination in the

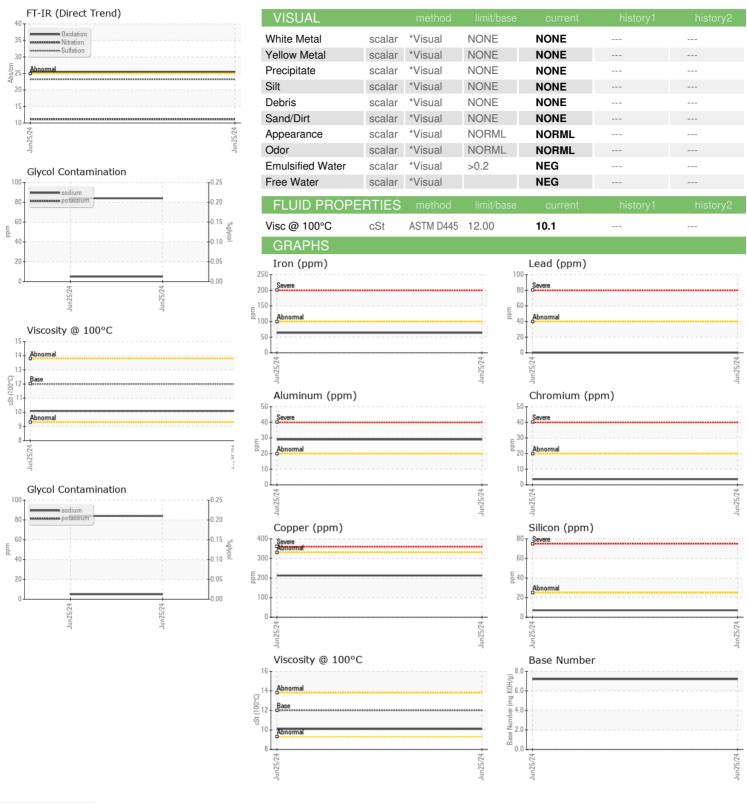
## **Fluid Condition**

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

Contample Number   Client Info   PCA0128952         Sample Date   Client Info   25 Jun 2024         Machine Age   mls   Client Info   26331         Machine Age   mls   Client Info   0         Dil Age   mls   Client Info   0         Dil Age   mls   Client Info   Not Changd         Dil Changed   Client Info   Not Changd         Sample Status   NORMAL         CONTAMINATION   method   limit/base   current   history1   history2     Fuel   WC Method   >5   <1.0         WEAR METALS   method   limit/base   current   history1   history2     Ton   ppm   ASTM D5185m   >100   64         Chromium   ppm   ASTM D5185m   >4   1         Chromium   ppm   ASTM D5185m   >4   1         Chromium   ppm   ASTM D5185m   >4   1         Cilitarium   ppm   ASTM D5185m   >20   29         Cadd   ppm   ASTM D5185m   >40   <1         Copper   ppm   ASTM D5185m   >40   <1         Caddium   ppm   ASTM D5185m   >15   4         ADDITIVES   method   limit/base   current   history1   history2     ADDITIVES   method   limit/base   current   histor	AL)				Jun2024		
Cample Date   Client Info   25 Jun 2024	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age   mls	Sample Number		Client Info		PCA0128952		
Dil Changed	Sample Date		Client Info		25 Jun 2024		
Clichanged   Client Info   Not Changed   NORMAL     NORMAL   NORMAL   NORMAL   NORMAL   NORMAL     NORMAL   NORMA	Machine Age	mls	Client Info		26331		
CONTAMINATION   method   milibase   current   history1   history2	Oil Age	mls	Client Info		0		
CONTAMINATION	Oil Changed		Client Info		Not Changd		
Weight   Wideling	Sample Status				NORMAL		
Water         WC Method         0.2.2         NEG             WEAR METALS         method         limit/base         current         history1         history2           Fron         ppm         ASTM D5185m         >100         64             Chromium         ppm         ASTM D5185m         >20         4             Vickel         ppm         ASTM D5185m         >4         1             Siliver         ppm         ASTM D5185m         >3         <1             Aluminum         ppm         ASTM D5185m         >40         <1             Aluminum         ppm         ASTM D5185m         >40         <1             Lead         ppm         ASTM D5185m         >40         <1             Lead         ppm         ASTM D5185m         >40         <1             Aluminum         ppm         ASTM D5185m         0         0             Candium         ppm         ASTM D5185m         0         0         <	CONTAMINAT	ION	method	limit/base	current	history1	history2
WEAR METALS         method         limit/base         current         history1         history2           ron         ppm         ASTM D5185m         >100         64             chromium         ppm         ASTM D5185m         >20         4             dickel         ppm         ASTM D5185m         >4         1             Silver         ppm         ASTM D5185m         >3         <1	uel		WC Method	>5	<1.0		
Concording   Chromium   Chromiu	Vater		WC Method	>0.2	NEG		
Description	WEAR METAL	S	method	limit/base	current	history1	history2
Description	ron	nnm	ASTM D5185m	>100	64		
ASTM D5185m	-						
Silver					-		
ASTM D5185m   Salver   Ppm   ASTM D5185m   Ppm				<b>7</b> 4	-		
ASTM D5185m   >20   29				. 0			
December   December							
Act							
Tin							
Anadium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         2         31             Barium         ppm         ASTM D5185m         0         0             Molybdenum         ppm         ASTM D5185m         50         42             Manganese         ppm         ASTM D5185m         0         2             Magnesium         ppm         ASTM D5185m         950         504             Adagnesium         ppm         ASTM D5185m         950         504             Pohosphorus         ppm         ASTM D5185m         950         504             Pince         ppm         ASTM D5185m         95         871             Polifur         ppm         ASTM D5185m         2600         2125					_		
ADDITIVES				>15	•		
ADDITIVES					-		
Soron   ppm   ASTM D5185m   2   31		ppm	ASTM D5185m		0		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         50         42             Manganese         ppm         ASTM D5185m         0         2             Magnesium         ppm         ASTM D5185m         950         504             Calcium         ppm         ASTM D5185m         1050         1742             Phosphorus         ppm         ASTM D5185m         995         871             Zinc         ppm         ASTM D5185m         995         871             Zinc         ppm         ASTM D5185m         2600         2125             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         7             Potassium         ppm         ASTM D5185m         5             Goldum         ppm         ASTM D5185m         >20         84             Golycol         %         *ASTM D7844         >3	Boron	ppm	ASTM D5185m	2	31		
Manganese         ppm         ASTM D5185m         0         2             Magnesium         ppm         ASTM D5185m         950         504             Calcium         ppm         ASTM D5185m         1050         1742             Phosphorus         ppm         ASTM D5185m         995         871             Zinc         ppm         ASTM D5185m         1180         958             Zinc         ppm         ASTM D5185m         2600         2125             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         7             Goldium         ppm         ASTM D5185m         >20         84             Potassium         ppm         ASTM D5185m         >20         84             Glycol         %         *ASTM D5185m         >20         84             Billicon         %         *ASTM D5185m	Barium	ppm	ASTM D5185m	0	0		
Magnesium         ppm         ASTM D5185m         950         504             Calcium         ppm         ASTM D5185m         1050         1742             Phosphorus         ppm         ASTM D5185m         995         871             Zinc         ppm         ASTM D5185m         2600         2125             Sulfur         ppm         ASTM D5185m         2600         2125             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         7             Goldium         ppm         ASTM D5185m         5              Potassium         ppm         ASTM D5185m         >20         84             Glycol         %         *ASTM D5185m         >20         NEG             Silicon         ppm         ASTM D5185m         >20         NEG             Glycol         %         *ASTM D5185m	Molybdenum	ppm	ASTM D5185m	50	42		
Calcium         ppm         ASTM D5185m         1050         1742             Phosphorus         ppm         ASTM D5185m         995         871             Zinc         ppm         ASTM D5185m         1180         958             Sulfur         ppm         ASTM D5185m         2600         2125             CONTAMINANTS         method         limit/base         current         history1         history2           Solicon         ppm         ASTM D5185m         >25         7             Solicon         ppm         ASTM D5185m         >20         84             Solycol         %         *ASTM D5185m         >20         84             Glycol         %         *ASTM D2882         NEG             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7624         >20         11.1             Sulfation         Abs/.1mm         *ASTM D7414         >25	Manganese	ppm	ASTM D5185m	0	2		
Phosphorus         ppm         ASTM D5185m         995         871             Pinc         ppm         ASTM D5185m         1180         958             Bulfur         ppm         ASTM D5185m         2600         2125             CONTAMINANTS         method         limit/base         current         history1         history2           Bilicon         ppm         ASTM D5185m         >25         7             Bodium         ppm         ASTM D5185m         5              Bototassium         ppm         ASTM D5185m         >20         84             Bolycol         %         *ASTM D5185m         >20         NEG             Botovol         %         *ASTM D2882         NEG             Botovol         %         *ASTM D7844         >3         0.7             Botovol         %         *ASTM D7624         >20         11.1             Botovol         %         *ASTM D7415         >30 <td< td=""><td>/lagnesium</td><td>ppm</td><td>ASTM D5185m</td><td>950</td><td>504</td><td></td><td></td></td<>	/lagnesium	ppm	ASTM D5185m	950	504		
Contamination   Contaminatio   Contamination   Contamination   Contamination   Contamination	Calcium	ppm	ASTM D5185m	1050	1742		
Contain	Phosphorus	ppm	ASTM D5185m	995	871		
Gulfur         ppm         ASTM D5185m         2600         2125             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         7             Bodium         ppm         ASTM D5185m         5              Potassium         ppm         ASTM D5185m         >20         84             Glycol         %         *ASTM D5185m         >20         84             Blycol         %         *ASTM D282e         NEG             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.7             Soulfation         Abs/.1mm         *ASTM D7624         >20         11.1             FLUID DEGRADATION         method         limit/base         current         history1         history2           Dxidation         Abs/.1mm         *ASTM D7414         >25 <td></td> <td></td> <td>ASTM D5185m</td> <td>1180</td> <td>958</td> <td></td> <td></td>			ASTM D5185m	1180	958		
Solicon   ppm   ASTM D5185m   >25   7	Sulfur		ASTM D5185m	2600	2125		
Sodium	CONTAMINAN	ITS	method	limit/base	current	history1	history2
Sodium	Silicon	ppm	ASTM D5185m	>25	7		
Potassium         ppm         ASTM D5185m         >20         84             Glycol         %         *ASTM D2982         NEG             INFRA-RED         method         limit/base         current         history1         history2           Goot %         %         *ASTM D7844         >3         0.7             Vitration         Abs/cm         *ASTM D7624         >20         11.1             Sulfation         Abs/.1mm         *ASTM D7415         >30         23.2             FLUID DEGRADATION         method         limit/base         current         history1         history2           Dxidation         Abs/.1mm         *ASTM D7414         >25         25.5							
NEG         NEG     NEG     NEG     NEG     NEG     NEG     NEG   NE				>20			
Soot %							
Nitration         Abs/cm         *ASTM D7624         >20         11.1             Sulfation         Abs/.1mm         *ASTM D7415         >30         23.2             FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         25.5	INFRA-RED		method	limit/base	current	history1	history2
Nitration         Abs/cm         *ASTM D7624         >20         11.1             Sulfation         Abs/.1mm         *ASTM D7415         >30         23.2             FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         25.5	Soot %	%	*ASTM D7844	>3	0.7		
Sulfation         Abs/.1mm         *ASTM D7415         >30         23.2             FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         25.5							
FLUID DEGRADATION method limit/base current history1 history2  Dxidation Abs/.1mm *ASTM D7414 >25 25.5							
Dxidation							-biotom O
		JATION		iimit/base	current	nistory	nistory2
Base Number (BN) mg KOH/g ASTM D2896 7.2		Abs/.1mm	*ASTM D7414	>25	25.5		
	Base Number (BN)	mg KOH/g	ASTM D2896		7.2		



# **OIL ANALYSIS REPORT**







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 **Lab Number** : 06230016

: PCA0128952 Unique Number : 11113509

Received : 08 Jul 2024 **Tested** Diagnosed

: 10 Jul 2024

: 10 Jul 2024 - Jonathan Hester

Test Package : MOB 1 ( Additional Tests: GLYCOL, TBN ) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - 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)

Contact: MIKE LONGETTE mlongette@millertransgroup.com T:

**MILLER TRUCK LEASING #119** 

HASBROUCK HEIGHTS, NJ

39 INDUSTRIAL AVE

Report Id: MILRUT [WUSCAR] 06230016 (Generated: 07/10/2024 08:35:07) Rev: 1

Contact/Location: MIKE LONGETTE - MILRUT

F: (201)528-7053

US 07604