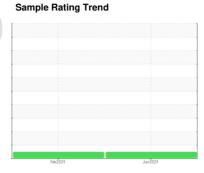


# **OIL ANALYSIS REPORT**

# (P926531) Preferred Service-Tractor [Preferred Service-Tractor] 192A01992

**Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (36 QTS)





### 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

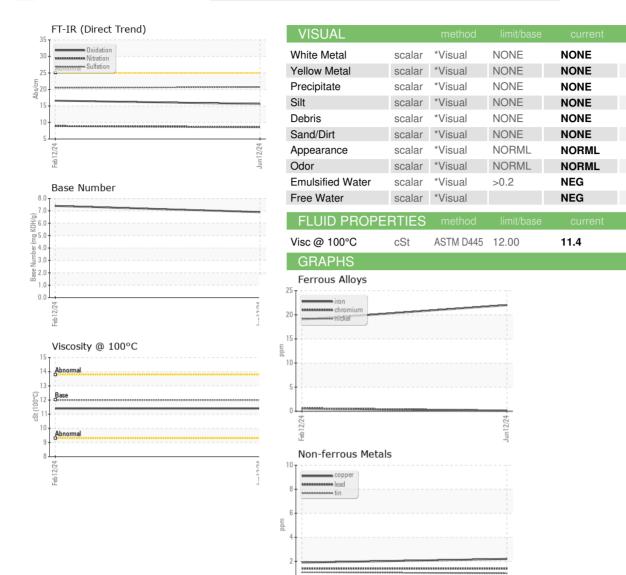
### **Fluid Condition**

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

Cample Number   Client Info   PCA0126921   PCA0116703	TS)			Feb 2024	Jun2024		
Client Info	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Machine Age   mls   Client Info   441980   430398       Dit Age   mls   Client Info   11582   18758       Dit Changed   Changed   Changed       Sample Status   NORMAL   NORMAL       CONTAMINATION   method   Imitibase   current   history1   history2     Fuel   WC Method   >0.2   NEG   NEG       Water   WC Method   >0.2   NEG   NEG       WEAR METALS   method   Imitibase   current   history1   history2     Ton   ppm   ASTM D5185m   >20   <1   <1       Circmium   ppm   ASTM D5185m   >20   <1   <1       Circkel   ppm   ASTM D5185m   >2   0   <1       Circkel   ppm   ASTM D5185m   >2   0   <1       Circhenium   ppm   ASTM D5185m   >2   1   0       Circhenium   ppm   ASTM D5185m   0   <1       ADDITIVES   method   Imitibase   current   history1   history2     ADDITIVES   method   Imitibase   current   history1   history2     ASTM D5185m   1050   1063   1124       Phosphorus   ppm   ASTM D5185m   20   0   <1   <1   <     CONTAMINANTS   method   Imitibase   current   history1   history2     CONTAMINANTS   method   Imitibase   current   history1   history2     Distriction   Abs/Imm   ASTM D7185   >30   20.7   20.5       FLUID DEGRADATION   method   Imitibase   current   history1   history2   Dxidation   Abs/Imm   ASTM D71815   >30   20.7   20.5	Sample Number		Client Info		PCA0126921	PCA0116703	
Dil Age	Sample Date		Client Info		12 Jun 2024	12 Feb 2024	
Client Info	Machine Age	mls	Client Info		441980	430398	
NORMAL   N	Oil Age	mls	Client Info		11582	18758	
CONTAMINATION	Oil Changed		Client Info		Changed	Changed	
Value	Sample Status				NORMAL	NORMAL	
Water	CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
WEAR METALS	uel		WC Method	>6.0	<1.0	<1.0	
WEAR METALS	Vater		WC Method	>0.2	NEG	NEG	
Chromium	Glycol		WC Method		NEG	NEG	
ASTM D5185m   >20	WEAR METAI	LS	method	limit/base	current	history1	history2
Sirickel	ron	ppm	ASTM D5185m	>100	22	19	
ASTM D5185m	Chromium		ASTM D5185m	>20	<1	<1	
ASTM D5185m   C1   C1   C1   C2   C3   C3   C3   C4   C4   C4   C4   C4	Nickel		ASTM D5185m	>2	0	<1	
Aluminum	Γitanium	ppm	ASTM D5185m		<1	<1	
December   December	Silver	ppm	ASTM D5185m	>2	0	<1	
Copper	Aluminum	ppm	ASTM D5185m	>25	4	4	
Academium	_ead	ppm	ASTM D5185m	>40	1	1	
Anadium         ppm         ASTM D5185m         0         <1            Cadmium         ppm         ASTM D5185m         0         <1            ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         2         1         0            Barium         ppm         ASTM D5185m         0         0         0            Molybdenum         ppm         ASTM D5185m         50         61         63            Manganese         ppm         ASTM D5185m         0         <1         <1            Magnesium         ppm         ASTM D5185m         950         924         1009            Dateium         ppm         ASTM D5185m         950         924         1009            Phosphorus         ppm         ASTM D5185m         995         1047         1163            Phosphorus         ppm         ASTM D5185m         2600         3308         3371            Bulfur         ppm         ASTM D5185m         2600         3308	Copper	ppm	ASTM D5185m	>330	2	2	
ADDITIVES	- Tin	ppm	ASTM D5185m	>15	1	1	
ADDITIVES	Vanadium	ppm	ASTM D5185m		0	<1	
Soron   ppm   ASTM D5185m   2	Cadmium	ppm	ASTM D5185m		0	<1	
Description	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         50         61         63            Manganese         ppm         ASTM D5185m         0         <1	Boron	ppm	ASTM D5185m	2	1	0	
Manganese         ppm         ASTM D5185m         0         <1         <1            Magnesium         ppm         ASTM D5185m         950         924         1009            Calcium         ppm         ASTM D5185m         1050         1063         1124            Phosphorus         ppm         ASTM D5185m         995         1047         1163            Zinc         ppm         ASTM D5185m         995         1047         1163            Zinc         ppm         ASTM D5185m         2600         3308         3371            CONTAMINANTS         method         limit/base         current         history1         history2           Golium         ppm         ASTM D5185m         >25         4         4            Goldium         ppm         ASTM D5185m         >20         1         2            Potassium         ppm         ASTM D5185m         >20         1         2            INFRA-RED         method         limit/base         current         history1         history2           Goot %         *ASTM D7844         >3 <t< td=""><td>Barium</td><td>ppm</td><td>ASTM D5185m</td><td>0</td><td>0</td><td>0</td><td></td></t<>	Barium	ppm	ASTM D5185m	0	0	0	
Magnesium         ppm         ASTM D5185m         950         924         1009            Calcium         ppm         ASTM D5185m         1050         1063         1124            Phosphorus         ppm         ASTM D5185m         995         1047         1163            Zinc         ppm         ASTM D5185m         1180         1233         1313            Sulfur         ppm         ASTM D5185m         2600         3308         3371            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         4         4            Potassium         ppm         ASTM D5185m         >20         1         2            Potassium         ppm         ASTM D5185m         >20         1         2            INFRA-RED         method         limit/base         current         history1         history2           Sitration         Abs/cm         *ASTM D7624         >20         8.6         8.9            FLUID DEGRADATION         method <td< td=""><td>Molybdenum</td><td>ppm</td><td>ASTM D5185m</td><td>50</td><td>61</td><td>63</td><td></td></td<>	Molybdenum	ppm	ASTM D5185m	50	61	63	
Calcium         ppm         ASTM D5185m         1050         1063         1124            Phosphorus         ppm         ASTM D5185m         995         1047         1163            Zinc         ppm         ASTM D5185m         1180         1233         1313            Sulfur         ppm         ASTM D5185m         2600         3308         3371            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         4         4            Godium         ppm         ASTM D5185m         >20         1         2            Potassium         ppm         ASTM D5185m<	Manganese	ppm	ASTM D5185m	0	<1	<1	
Phosphorus         ppm         ASTM D5185m         995         1047         1163            Zinc         ppm         ASTM D5185m         1180         1233         1313            Sulfur         ppm         ASTM D5185m         2600         3308         3371            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         4         4            Godium         ppm         ASTM D5185m         4         2            Potassium         ppm         ASTM D5185m         >20         1         2            Potassium         ppm         ASTM D5185m         >20         1         2            INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         1.2         1            Witration         Abs/cm         *ASTM D7415         >30         20.7         20.5            FLUID DEGRADATION         method         limit/base         current	Magnesium	ppm	ASTM D5185m	950	924	1009	
Time	Calcium	ppm	ASTM D5185m	1050	1063	1124	
Sulfur         ppm         ASTM D5185m         2600         3308         3371            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         4         4            Godium         ppm         ASTM D5185m         20         1         2            Potassium         ppm         ASTM D5185m         >20         1         2            INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         1.2         1            Sulfation         Abs/cm         *ASTM D7624         >20         8.6         8.9            FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         15.6         16.6	Phosphorus	ppm	ASTM D5185m	995	1047	1163	
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         4         4            Godium         ppm         ASTM D5185m         4         2            Potassium         ppm         ASTM D5185m         >20         1         2            INFRA-RED         method         limit/base         current         history1         history2           Goot %         %         *ASTM D7844         >3         1.2         1            Nitration         Abs/cm         *ASTM D7624         >20         8.6         8.9            Sulfation         Abs/.1mm         *ASTM D7415         >30         20.7         20.5            FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         15.6         16.6	Zinc	ppm	ASTM D5185m	1180	1233	1313	
Solicon   ppm   ASTM D5185m   >25   4   4	Sulfur	ppm	ASTM D5185m	2600	3308	3371	
Sodium         ppm         ASTM D5185m         4         2            Potassium         ppm         ASTM D5185m         >20         1         2            INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         1.2         1            Nitration         Abs/cm         *ASTM D7624         >20         8.6         8.9            Sulfation         Abs/.1mm         *ASTM D7415         >30         20.7         20.5            FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         15.6         16.6	CONTAMINA	NTS	method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185m         >20         1         2            INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         1.2         1            Sultration         Abs/cm         *ASTM D7624         >20         8.6         8.9            Sulfation         Abs/.1mm         *ASTM D7415         >30         20.7         20.5            FLUID DEGRADATION method limit/base current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         15.6         16.6	Silicon	ppm	ASTM D5185m	>25	4	4	
INFRA-RED	Sodium	ppm	ASTM D5185m		4	2	
Soot %	Potassium	ppm	ASTM D5185m	>20	1	2	
Nitration         Abs/cm         *ASTM D7624         >20         8.6         8.9            Sulfation         Abs/.1mm         *ASTM D7415         >30         20.7         20.5            FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         15.6         16.6	INFRA-RED		method	limit/base	current	history1	history2
Sulfation         Abs/.1mm         *ASTM D7415         >30         20.7         20.5            FLUID DEGRADATION         method         limit/base         current         history1         history2           Dxidation         Abs/.1mm         *ASTM D7414         >25         15.6         16.6	Soot %	%	*ASTM D7844	>3	1.2	1	
FLUID DEGRADATION method limit/base current history1 history2  Dxidation Abs/.1mm *ASTM D7414 >25 15.6 16.6	Nitration	Abs/cm	*ASTM D7624	>20	8.6	8.9	
Oxidation	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	20.5	
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	16.6	
	Base Number (BN)	mg KOH/g	ASTM D2896			7.4	



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No. **Lab Number** : 06209822 Unique Number : 11082686 Test Package : FLEET

:St (100°C)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0126921 Received : 14 Jun 2024

**Tested** : 15 Jun 2024 Diagnosed

: 15 Jun 2024 - Wes Davis

1955 W. North Avenue, Bldg K

Base Number

4.0

1.0 0.0 Feb12/24

> Melrose Park, IL US 60160 Contact: Tom Lindeman tlindemann@transervice.com T: (630)376-8946

Transervice - Shop 1920 - Preferred Service

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

11.4

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)

Viscosity @ 100°C

Report Id: TSV1920 [WUSCAR] 06209822 (Generated: 06/15/2024 15:41:03) Rev: 1

Submitted By: Tom Lindeman