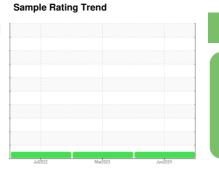


**OIL ANALYSIS REPORT** 

# (15606Z) Walgreens - Tractor [Walgreens - Tractor] 136A61364

**Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (10 GAL)





## 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

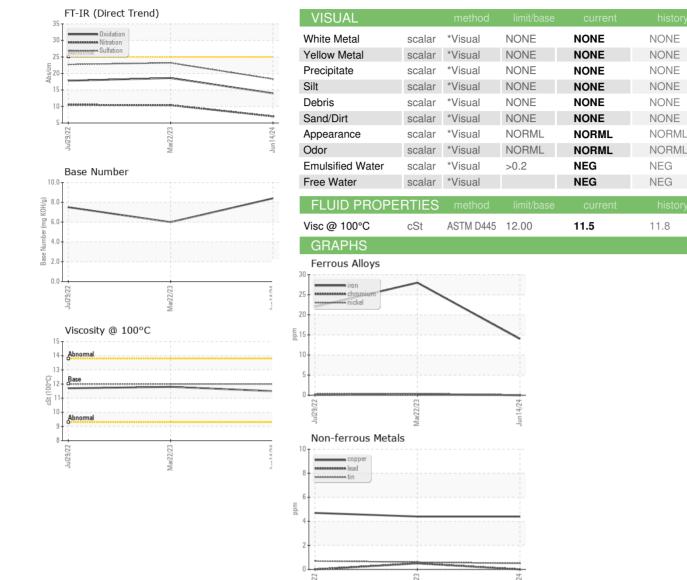
### **Fluid Condition**

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

Sample Number   Client Info   PCA0117305   PCA0095110   PCA007851   Sample Date   Client Info   14 Jun 2024   22 Mar 2023   29 Jul 2022   29 Jul 2022   20	AAL)		Ju	12022	marzuza Junzu	24	
Client Info   14 Jun 2024   22 Mar 2023   29 Jul 2022	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Machine Age   mis	Sample Number		Client Info		PCA0117305	PCA0095110	PCA0078504
Oil Changed	Sample Date		Client Info		14 Jun 2024	22 Mar 2023	29 Jul 2022
Client Info	Machine Age	mls	Client Info		332141	294289	234554
NORMAL   NORMAL   NORMAL   NORMAL   CONTAMINATION   method   limit/base   current   history1   history2   history3   history3   history3   history3   history3   history3   history4   history5   history5   history5   history5   history5   history5   history6   history7   history7   history7   history7   history7   history7   history8   history8   history8   history8   history9   history9   history9   history9   history9   history9   history9   history9   history9   history1   history9   hi	Oil Age	mls	Client Info		332141	59735	38880
CONTAMINATION         method         limit/base         current         history1         history1           Fuel         WC Method         >5         <1.0	Oil Changed		Client Info		Changed	Changed	Changed
Fuel	Sample Status				NORMAL	NORMAL	NORMAL
Water         WC Method         >0.2         NEG         NEG         NEG           Glycol         WC Method         Imit Mosse         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185m         >110         14         28         22           Chromium         ppm         ASTM D5185m         >4         0         <1	CONTAMINA	TION	method	limit/base	current	history1	history2
WEAR METALS	Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METALS	Water		WC Method	>0.2	NEG	NEG	NEG
Irron	Glycol		WC Method		NEG	NEG	NEG
Chromium	WEAR METAI	LS	method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>110	14	28	22
Titanium	Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Silver	Nickel	ppm	ASTM D5185m	>2	0	<1	0
Aluminum         ppm         ASTM D5185m         >25         5         7         6           Lead         ppm         ASTM D5185m         >45         0         <1	Titanium	ppm	ASTM D5185m		0	0	0
Lead	Silver	ppm	ASTM D5185m	>2	0	0	0
Copper         ppm         ASTM D5185m         >85         4         4         5           Tin         ppm         ASTM D5185m         >4         <1	Aluminum	ppm	ASTM D5185m	>25	5	7	6
Tin	Lead	ppm	ASTM D5185m	>45	0	<1	0
Vanadium         ppm         ASTM D5185m         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         2         4         2         7           Barium         ppm         ASTM D5185m         0         0         0         0           Molybdenum         ppm         ASTM D5185m         0         59         63         64           Manganese         ppm         ASTM D5185m         0         <1         <1         <1           Magnesium         ppm         ASTM D5185m         950         950         899         905           Calcium         ppm         ASTM D5185m         995         1126         1020         942           Zinc         ppm         ASTM D5185m         995         1126         1020         942           Zinc         ppm         ASTM D5185m         2600         3602         2527         2672           CONTAMINANTS         method         limit/base         current         history1         history1	Copper	ppm	ASTM D5185m	>85	4	4	5
Cadmium         ppm         ASTM D5185m         0         0         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         2         4         2         7           Barium         ppm         ASTM D5185m         0         0         0         0           Molybdenum         ppm         ASTM D5185m         50         59         63         64           Manganese         ppm         ASTM D5185m         50         59         63         64           Magnesium         ppm         ASTM D5185m         950         950         899         905           Calcium         ppm         ASTM D5185m         950         950         899         905           Calcium         ppm         ASTM D5185m         1050         1113         1187         1097           Phosphorus         ppm         ASTM D5185m         995         1126         1020         942           Zinc         ppm         ASTM D5185m         2600         3602         2527         2672           CONTAMINANTS         method         limit/base         current <t< td=""><td>Tin</td><td>ppm</td><td>ASTM D5185m</td><td>&gt;4</td><th>&lt;1</th><td>&lt;1</td><td>&lt;1</td></t<>	Tin	ppm	ASTM D5185m	>4	<1	<1	<1
ADDITIVES	Vanadium	ppm	ASTM D5185m		0	0	0
Boron   ppm   ASTM D5185m   2   4   2   7	Cadmium	ppm	ASTM D5185m		0	0	0
Barium         ppm         ASTM D5185m         0         0         0         0           Molybdenum         ppm         ASTM D5185m         50         59         63         64           Manganese         ppm         ASTM D5185m         0         <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         50         59         63         64           Manganese         ppm         ASTM D5185m         0         <1         <1         <1           Magnesium         ppm         ASTM D5185m         950         950         899         905           Calcium         ppm         ASTM D5185m         1050         1113         1187         1097           Phosphorus         ppm         ASTM D5185m         995         1126         1020         942           Zinc         ppm         ASTM D5185m         995         1126         1020         942           Zinc         ppm         ASTM D5185m         995         1126         1020         942           Zinc         ppm         ASTM D5185m         2600         3602         2527         2672           CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >30         5         9         7           Sodium         ppm         ASTM D5185m         >20         7         7         6           INFRA-RED         method         limit/base	Boron	ppm	ASTM D5185m	2	4	2	7
Manganese         ppm         ASTM D5185m         0         <1         <1         <1           Magnesium         ppm         ASTM D5185m         950         950         899         905           Calcium         ppm         ASTM D5185m         1050         1113         1187         1097           Phosphorus         ppm         ASTM D5185m         995         1126         1020         942           Zinc         ppm         ASTM D5185m         1180         1293         1241         1192           Sulfur         ppm         ASTM D5185m         2600         3602         2527         2672           CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >30         5         9         7           Sodium         ppm         ASTM D5185m         20         7         7         6           INFRA-RED         method         limit/base         current         history1         history1           Soot %         %         *ASTM D7844         >3         0.3         0.9         0.7           Nitration         Abs/cm         *ASTM D7815	Barium	ppm	ASTM D5185m	0	0	0	0
Magnesium         ppm         ASTM D5185m         950         899         905           Calcium         ppm         ASTM D5185m         1050         1113         1187         1097           Phosphorus         ppm         ASTM D5185m         995         1126         1020         942           Zinc         ppm         ASTM D5185m         1180         1293         1241         1192           Sulfur         ppm         ASTM D5185m         2600         3602         2527         2672           CONTAMINANTS         method         limit/base         current         history1         history3           Silicon         ppm         ASTM D5185m         >30         5         9         7           Sodium         ppm         ASTM D5185m         20         7         7         6           INFRA-RED         method         limit/base         current         history1         history3           Soot %         %         *ASTM D7844         >3         0.3         0.9         0.7           Nitration         Abs/.1mm         *ASTM D7624         >20         7.0         10.4         10.5           Sulfation         Abs/.1mm         *ASTM D7414	Molybdenum	ppm	ASTM D5185m	50	59	63	64
Calcium         ppm         ASTM D5185m         1050         1113         1187         1097           Phosphorus         ppm         ASTM D5185m         995         1126         1020         942           Zinc         ppm         ASTM D5185m         1180         1293         1241         1192           Sulfur         ppm         ASTM D5185m         2600         3602         2527         2672           CONTAMINANTS         method         limit/base         current         history1         history2           Solicon         ppm         ASTM D5185m         >30         5         9         7           Sodium         ppm         ASTM D5185m         2         0         0         0           Potassium         ppm         ASTM D5185m         20         7         7         6           INFRA-RED         method         limit/base         current         history1         history1           Soot %         %         *ASTM D7844         >3         0.3         0.9         0.7           Nitration         Abs/cm         *ASTM D7624         >20         7.0         10.4         10.5           Sulfation         Abs/.1mm	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Phosphorus         ppm         ASTM D5185m         995         1126         1020         942           Zinc         ppm         ASTM D5185m         1180         1293         1241         1192           Sulfur         ppm         ASTM D5185m         2600         3602         2527         2672           CONTAMINANTS         method         limit/base         current         history1         history3           Silicon         ppm         ASTM D5185m         >30         5         9         7           Sodium         ppm         ASTM D5185m         2         0         0         0           Potassium         ppm         ASTM D5185m         >20         7         7         6           INFRA-RED         method         limit/base         current         history1         history1           Soot %         %         *ASTM D7844         >3         0.3         0.9         0.7           Nitration         Abs/cm         *ASTM D7624         >20         7.0         10.4         10.5           Sulfation         Abs/.1mm         *ASTM D7415         >30         18.3         23.2         22.7           FLUID DEGRADATION         method	Magnesium	ppm	ASTM D5185m	950	950	899	905
Zinc         ppm         ASTM D5185m         1180         1293         1241         1192           Sulfur         ppm         ASTM D5185m         2600         3602         2527         2672           CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >30         5         9         7           Sodium         ppm         ASTM D5185m         2         0         0           Potassium         ppm         ASTM D5185m         >20         7         7         6           INFRA-RED         method         limit/base         current         history1         history1           Soot %         %         *ASTM D7844         >3         0.3         0.9         0.7           Nitration         Abs/cm         *ASTM D7624         >20         7.0         10.4         10.5           Sulfation         Abs/.1mm         *ASTM D7415         >30         18.3         23.2         22.7           FLUID DEGRADATION method         limit/base         current         history1         history1           Oxidation         Abs/.1mm         *ASTM D7414	Calcium	ppm	ASTM D5185m	1050	1113	1187	1097
Sulfur         ppm         ASTM D5185m         2600         3602         2527         2672           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >30         5         9         7           Sodium         ppm         ASTM D5185m         2         0         0           Potassium         ppm         ASTM D5185m         >20         7         7         6           INFRA-RED         method         limit/base         current         history1         history1           Soot %         %         *ASTM D7844         >3         0.3         0.9         0.7           Nitration         Abs/cm         *ASTM D7624         >20         7.0         10.4         10.5           Sulfation         Abs/.1mm         *ASTM D7415         >30         18.3         23.2         22.7           FLUID DEGRADATION         method         limit/base         current         history1         history1           Oxidation         Abs/.1mm         *ASTM D7414         >25         14.0         18.6         17.8	Phosphorus	ppm	ASTM D5185m	995	1126	1020	942
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >30         5         9         7           Sodium         ppm         ASTM D5185m         2         0         0           Potassium         ppm         ASTM D5185m         >20         7         7         6           INFRA-RED         method         limit/base         current         history1         history1           Soot %         %         *ASTM D7844         >3         0.3         0.9         0.7           Nitration         Abs/cm         *ASTM D7624         >20         7.0         10.4         10.5           Sulfation         Abs/.1mm         *ASTM D7415         >30         18.3         23.2         22.7           FLUID DEGRADATION         method         limit/base         current         history1         history1           Oxidation         Abs/.1mm         *ASTM D7414         >25         14.0         18.6         17.8	Zinc	ppm	ASTM D5185m	1180	1293	1241	1192
Silicon         ppm         ASTM D5185m         >30         5         9         7           Sodium         ppm         ASTM D5185m         2         0         0           Potassium         ppm         ASTM D5185m         >20         7         7         6           INFRA-RED         method         limit/base         current         history1         history1           Soot %         %         *ASTM D7844         >3         0.3         0.9         0.7           Nitration         Abs/cm         *ASTM D7624         >20         7.0         10.4         10.5           Sulfation         Abs/.1mm         *ASTM D7415         >30         18.3         23.2         22.7           FLUID DEGRADATION         method         limit/base         current         history1         history1           Oxidation         Abs/.1mm         *ASTM D7414         >25         14.0         18.6         17.8	Sulfur	ppm	ASTM D5185m	2600	3602	2527	2672
Sodium         ppm         ASTM D5185m         2         0         0           Potassium         ppm         ASTM D5185m         >20         7         7         6           INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.3         0.9         0.7           Nitration         Abs/cm         *ASTM D7624         >20         7.0         10.4         10.5           Sulfation         Abs/.1mm         *ASTM D7415         >30         18.3         23.2         22.7           FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         14.0         18.6         17.8	CONTAMINA	NTS	method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185m         >20         7         7         6           INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.3         0.9         0.7           Nitration         Abs/cm         *ASTM D7624         >20         7.0         10.4         10.5           Sulfation         Abs/.1mm         *ASTM D7415         >30         18.3         23.2         22.7           FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         14.0         18.6         17.8	Silicon	ppm	ASTM D5185m	>30	5	9	7
INFRA-RED	Sodium	ppm	ASTM D5185m		2	0	0
Soot %         %         *ASTM D7844         >3         0.3         0.9         0.7           Nitration         Abs/cm         *ASTM D7624         >20         7.0         10.4         10.5           Sulfation         Abs/.1mm         *ASTM D7415         >30         18.3         23.2         22.7           FLUID DEGRADATION method limit/base current history1         history1         history1           Oxidation         Abs/.1mm         *ASTM D7414         >25         14.0         18.6         17.8	Potassium	ppm	ASTM D5185m	>20	7	7	6
Nitration         Abs/cm         *ASTM D7624         >20         7.0         10.4         10.5           Sulfation         Abs/.1mm         *ASTM D7615         >30         18.3         23.2         22.7           FLUID DEGRADATION method limit/base current         history1         history1         history1           Oxidation         Abs/.1mm         *ASTM D7414         >25         14.0         18.6         17.8	INFRA-RED		method	limit/base	current	history1	history2
Sulfation         Abs/.1mm         *ASTM D7415         >30         18.3         23.2         22.7           FLUID DEGRADATION method limit/base current history1         history1         history1           Oxidation         Abs/.1mm         *ASTM D7414         >25         14.0         18.6         17.8	Soot %	%	*ASTM D7844	>3	0.3	0.9	0.7
FLUID DEGRADATION method limit/base current history1 history:  Oxidation Abs/.1mm *ASTM D7414 >25 14.0 18.6 17.8	Nitration	Abs/cm	*ASTM D7624	>20	7.0	10.4	10.5
Oxidation	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	23.2	22.7
	FLUID DEGRA	NOITADA	method	limit/base	current	history1	history2
Base Number (BN)         mg KOH/g         ASTM D2896         8.4         6.0         7.5	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	18.6	17.8
	Base Number (BN)	mg KOH/g	ASTM D2896		8.4	6.0	7.5



# **OIL ANALYSIS REPORT**



Viscosity @ 100°C





Laboratory Sample No. Lab Number : 06216704 Unique Number : 11089568 Test Package : FLEET

:St (100°C)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0117305 Received

: 21 Jun 2024 **Tested** : 24 Jun 2024

Diagnosed : 24 Jun 2024 - Wes Davis

Transervice - Shop 1367 - Berkeley-Jupiter 15998 Walgreens Drive

Base Number

8.0 (B/H<sub>0</sub>) (B/H<sub>0</sub>) (B/H<sub>0</sub>)

£ 5.0 후 4.0 88 2.0 1.0 0.0

Jupiter, FL

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

11.7

US 33478 Contact: Manny Gonzalez egonzalez@transervice.com

T: (561)776-0755 F: (561)776-0799

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)