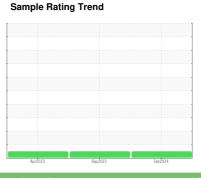


## **OIL ANALYSIS REPORT**

# (31596ME) Walgreens - Tractor [Walgreens - Tractor] 136D25696

**Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (11 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

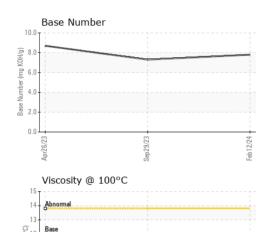
### **Fluid Condition**

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

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0110560	PCA0093523	PCA0096552
Sample Date		Client Info		12 Feb 2024	29 Sep 2023	26 Apr 2023
Machine Age	mls	Client Info		86059	86059	80378
Oil Age	mls	Client Info		86059	5681	80378
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	18	15	12
Chromium	ppm	ASTM D5185m	>4	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		3	21	7
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	2	<1
Lead	ppm	ASTM D5185m	>45	0	0	0
Copper	ppm	ASTM D5185m	>85	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	0	<1	0
Vanadium	ppm	ASTM D5185m	7	0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	ррш	method	limit/base	current	history1	history2
					•	•
Boron	ppm	ASTM D5185m	2	19	35	21
Davium	10 10 100	ACTM DE10Em				
Barium	ppm		0	3	0	0
Molybdenum	ppm	ASTM D5185m	50	55	39	47
Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m	50	55 0	39 <1	47
Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	50 0 950	55 0 814	39 <1 704	47 0 767
Molybdenum Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 0 950 1050	55 0 814 1071	39 <1 704 1244	47 0 767 1338
Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 0 950 1050 995	55 0 814 1071 978	39 <1 704 1244 841	47 0 767 1338 989
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 0 950 1050 995 1180	55 0 814 1071 978 1106	39 <1 704 1244 841 1123	47 0 767 1338 989 1202
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 0 950 1050 995 1180 2600	55 0 814 1071 978 1106 3252	39 <1 704 1244 841 1123 3042	47 0 767 1338 989 1202 3689
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 0 950 1050 995 1180 2600 limit/base	55 0 814 1071 978 1106 3252 current	39 <1 704 1244 841 1123 3042 history1	47 0 767 1338 989 1202 3689 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	50 0 950 1050 995 1180 2600	55 0 814 1071 978 1106 3252 current	39 <1 704 1244 841 1123 3042 history1 4	47 0 767 1338 989 1202 3689 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm	ASTM D5185m	50 0 950 1050 995 1180 2600 limit/base	55 0 814 1071 978 1106 3252 current 3	39 <1 704 1244 841 1123 3042 history1 4	47 0 767 1338 989 1202 3689 history2 4
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	50 0 950 1050 995 1180 2600 limit/base >30	55 0 814 1071 978 1106 3252 current 3 0	39 <1 704 1244 841 1123 3042 history1 4 1	47 0 767 1338 989 1202 3689 history2 4 2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm	ASTM D5185m	50 0 950 1050 995 1180 2600 limit/base >30 >20	55 0 814 1071 978 1106 3252 current 3 0 2	39 <1 704 1244 841 1123 3042 history1 4 1 history1	47 0 767 1338 989 1202 3689 history2 4 2 1
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m  Method ASTM D5185m  Method *ASTM D7844	50 0 950 1050 995 1180 2600 limit/base >30 >20 limit/base >3	55 0 814 1071 978 1106 3252 current 3 0 2 current 0.3	39 <1 704 1244 841 1123 3042 history1 4 1 1 history1 0.4	47 0 767 1338 989 1202 3689 history2 4 2 1 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur  CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m  Method ASTM D5185m	50 0 950 1050 995 1180 2600 limit/base >30 >20	55 0 814 1071 978 1106 3252 current 3 0 2 current 0.3 7.2	39 <1 704 1244 841 1123 3042 history1 4 1 1 0.4 8.0	47 0 767 1338 989 1202 3689 history2 4 2 1 history2 0.2 7.2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m  Method ASTM D5185m  Method *ASTM D7844	50 0 950 1050 995 1180 2600 limit/base >30 >20 limit/base >3	55 0 814 1071 978 1106 3252 current 3 0 2 current 0.3	39 <1 704 1244 841 1123 3042 history1 4 1 1 history1 0.4	47 0 767 1338 989 1202 3689 history2 4 2 1 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur  CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m  method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m  *ASTM D5185m  *ASTM D7844 *ASTM D7624 *ASTM D7415	50 0 950 1050 995 1180 2600 limit/base >30 >20	55 0 814 1071 978 1106 3252 current 3 0 2 current 0.3 7.2	39 <1 704 1244 841 1123 3042 history1 4 1 1 0.4 8.0	47 0 767 1338 989 1202 3689 history2 4 2 1 history2 0.2 7.2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m  method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m  *ASTM D5185m  *ASTM D7844 *ASTM D7624 *ASTM D7415	50 0 950 1050 995 1180 2600 limit/base >30 >20 limit/base >3 >20 >30	55 0 814 1071 978 1106 3252 current 3 0 2 current 0.3 7.2 18.0	39 <1 704 1244 841 1123 3042 history1 4 1 0.4 8.0 18.4	47 0 767 1338 989 1202 3689 history2 4 2 1 history2 0.2 7.2 17.2



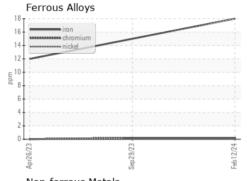
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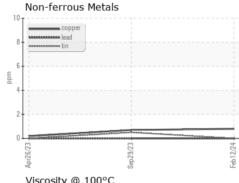


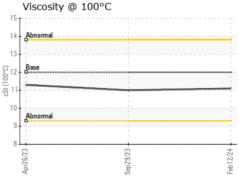
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

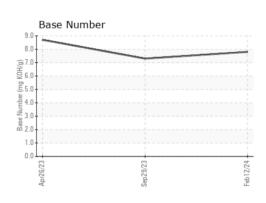
FLUID PROPE	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.1	11.0	11.3

### **GRAPHS**











Certificate L2367

Laboratory Sample No.

Unique Number : 10886900

Test Package : FLEET

Lab Number : 06094047

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0110560

Received

: 20 Feb 2024 **Tested** : 21 Feb 2024 Diagnosed : 21 Feb 2024 - Wes Davis

Transervice - Shop 1376 - Berkeley-Linden

3425 Tremley Point Road Linden, NJ US 07036

Contact: Shop 1376 Oil Analysis shop1376@transervice.com

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)

T:

F: