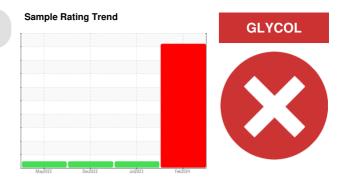


PROBLEM SUMMARY

(89671X) Walgreens - Tractor [Walgreens - Tractor] 136A69092

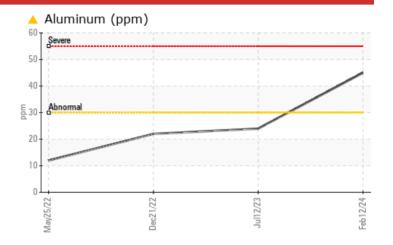
Diesel Engine

PETRO CANADA DURON SHP 10W30 (11 GAL)



COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	NORMAL	NORMAL			
Aluminum	ppm	ASTM D5185m	>30	45	24	22			
Sodium	ppm	ASTM D5185m		465	24	1			
Potassium	ppm	ASTM D5185m	>20	530	35	2			
Glycol	%	*ASTM D2982		• 0.10	NEG	NEG			

Customer Id: TSV1373 Sample No.: PCA0116450 Lab Number: 06090808 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	Oil and filter change at the time of sampling has been noted.			
Change Filter			?	Oil and filter change at the time of sampling has been noted.			
Resample			?	We recommend an early resample to monitor this condition.			
Check Glycol Access			?	We advise that you check for the source of the coolant leak.			

HISTORICAL DIAGNOSIS

12 Jul 2023 Diag: Wes Davis





Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



21 Dec 2022 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report

25 May 2022 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



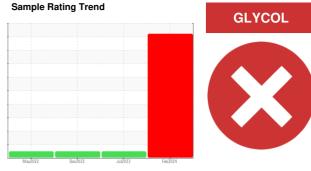


OIL ANALYSIS REPORT

(89671X) Walgreens - Tractor [Walgreens - Tractor] 136A69092

Diesel Engine

PETRO CANADA DURON SHP 10W30 (11 GAL)



DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

The aluminum level is abnormal. All other component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. Test for glycol is positive.

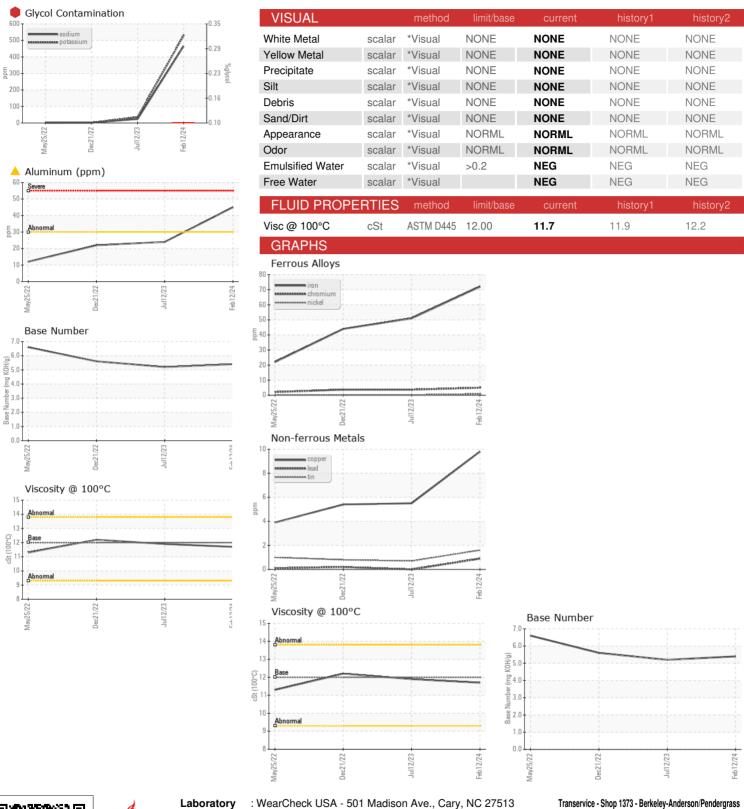
▲ Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

GAL)		May2022 Dec2022 Jul2023 Feb2024				
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0116450	PCA0101031	PCA0087917
Sample Date		Client Info		12 Feb 2024	12 Jul 2023	21 Dec 2022
Machine Age	mls	Client Info		745323	683808	620491
Oil Age	mls	Client Info		61515	63317	64824
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	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
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	72	51	44
Chromium	ppm	ASTM D5185m	>5	5	4	4
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>30	45	24	22
Lead	ppm	ASTM D5185m	>30	<1	0	<1
Copper	ppm	ASTM D5185m	>150	10	6	5
Tin	ppm	ASTM D5185m	>5	2	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES		method	IIIIII Dasc	Odifont		,
Boron	ppm	ASTM D5185m	2	6	12	<1
	ppm					-
Boron		ASTM D5185m	2	6	12	<1
Boron Barium	ppm	ASTM D5185m ASTM D5185m	2	6 <1	12	<1
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50	6 <1 114	12 0 66	<1 0 66
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0	6 <1 114 3	12 0 66 1	<1 0 66 <1
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950	6 <1 114 3 1318	12 0 66 1 941	<1 0 66 <1 942
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050	6 <1 114 3 1318 1650	12 0 66 1 941 1388	<1 0 66 <1 942 1236
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995	6 <1 114 3 1318 1650 1377	12 0 66 1 941 1388 1102	<1 0 66 <1 942 1236 1014
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180	6 <1 114 3 1318 1650 1377 1765	12 0 66 1 941 1388 1102 1328	<1 0 66 <1 942 1236 1014 1292
Boron Barium 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 ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600	6 <1 114 3 1318 1650 1377 1765 4411	12 0 66 1 941 1388 1102 1328 3289	<1 0 66 <1 942 1236 1014 1292 2970
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base	6 <1 114 3 1318 1650 1377 1765 4411 current	12 0 66 1 941 1388 1102 1328 3289 history1	<1 0 66 <1 942 1236 1014 1292 2970 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base	6 <1 114 3 1318 1650 1377 1765 4411 current 18	12 0 66 1 941 1388 1102 1328 3289 history1	<1 0 66 <1 942 1236 1014 1292 2970 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm	ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base	6 <1 114 3 1318 1650 1377 1765 4411 current 18 465	12 0 66 1 941 1388 1102 1328 3289 history1 8 24	<1 0 66 <1 942 1236 1014 1292 2970 history2 8 1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm	ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base	6 <1 114 3 1318 1650 1377 1765 4411 current 18 465 530	12 0 66 1 941 1388 1102 1328 3289 history1 8 24 35	<1 0 66 <1 942 1236 1014 1292 2970 history2 8 1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol	ppm	ASTM D5185m METHOD ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base >20	6 <1 114 3 1318 1650 1377 1765 4411 current 18 465 530 0.10	12 0 66 1 941 1388 1102 1328 3289 history1 8 24 35 NEG	<1 0 66 <1 942 1236 1014 1292 2970 history2 8 1 2 NEG
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED	ppm	ASTM D5185m *ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base >20	6 <1 114 3 1318 1650 1377 1765 4411 current 18 465 530 0.10 current	12 0 66 1 941 1388 1102 1328 3289 history1 8 24 35 NEG	<1 0 66 <1 942 1236 1014 1292 2970 history2 8 1 2 NEG
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED Soot %	ppm	ASTM D5185m *ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base >20 >20	6 <1 114 3 1318 1650 1377 1765 4411 current 18 465 530 0.10 current 1.3	12 0 66 1 941 1388 1102 1328 3289 history1 8 24 35 NEG history1	<1 0 66 <1 942 1236 1014 1292 2970 history2 8 1 2 NEG history2 1.4
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration	ppm	ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7624	2 0 50 0 950 1050 995 1180 2600 limit/base >20 >20	6 <1 114 3 1318 1650 1377 1765 4411 current 18 465 530 0.10 current 1.3 11.6	12 0 66 1 941 1388 1102 1328 3289 history1 8 24 35 NEG history1 1.4 11.7	<1 0 66 <1 942 1236 1014 1292 2970 history2 8 1 2 NEG history2 1.4 11.2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration Sulfation FLUID DEGRAE	ppm	ASTM D5185m **ASTM D7844 **ASTM D7624 **ASTM D7415 method	2 0 50 0 950 1050 995 1180 2600 limit/base >20 >20 >3 >20 >3 limit/base	6 <1 114 3 1318 1650 1377 1765 4411 current 18 465 530 0.10 current 1.3 11.6 26.6 current	12 0 66 1 941 1388 1102 1328 3289 history1 8 24 35 NEG history1 1.4 11.7 24.9 history1	<1 0 66 <1 942 1236 1014 1292 2970 history2 8 1 2 NEG history2 1.4 11.2 24.2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration Sulfation	ppm	ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7624	2 0 50 0 950 1050 995 1180 2600 limit/base >20 >20 >3 >20 >3	6 <1 114 3 1318 1650 1377 1765 4411 current 18 465 530 0.10 current 1.3 11.6 26.6	12 0 66 1 941 1388 1102 1328 3289 history1 8 24 35 NEG history1 1.4 11.7 24.9	<1 0 66 <1 942 1236 1014 1292 2970 history2 8 1 2 NEG history2 1.4 11.2 24.2



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number

: 06090808 **Unique Number** : 10883661

: PCA0116450

Received **Tested** Diagnosed Test Package: FLEET (Additional Tests: Glycol)

: 15 Feb 2024 : 19 Feb 2024 : 19 Feb 2024 - Jonathan Hester

Transervice - Shop 1373 - Berkeley-Anderson/Pendergrass 101 Alliance Parkway Willamston, SC US 29697

> Contact: Sonny Boucher sboucher@transervice.com T: (864)226-2304

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)

F: (864)226-2329