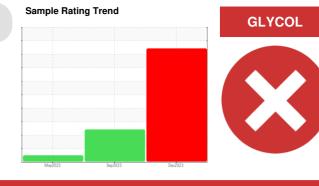


PROBLEM SUMMARY

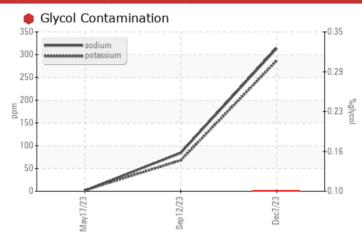
(89637X) Walgreens - Tractor [Walgreens - Tractor] 136A68025

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. 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	ABNORMAL	NORMAL		
Sodium	ppm	ASTM D5185m		<u></u> 4 314 ∆	<u></u> 84	1		
Potassium	ppm	ASTM D5185m	>20	287	△ 68	2		
Glycol	%	*ASTM D2982		0.10	NEG	NEG		

Customer Id: TSV1376 Sample No.: PCA0110528 Lab Number: 06040476 Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

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 Sep 2023 Diag: Jonathan Hester

GLYCOL



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. All component wear rates are normal. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.



17 May 2023 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. Metal levels are typical for a components first oil change. 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.



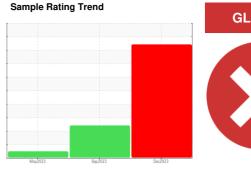


OIL ANALYSIS REPORT

(89637X) Walgreens - Tractor [Walgreens - Tractor] 136A68025

Diesel Engine

PETRO CANADA DURON SHP 10W30 (11 GAL)



DIAGNOSIS

Recommendation

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

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. Test for glycol is positive. There is a high concentration of glycol present in the oil.

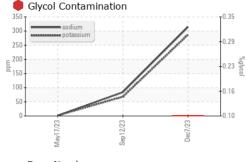
▲ Fluid Condition

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)		Ma	y2023	Sep 2023 Dec 20	23	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0110528	PCA0093529	PCA0093513
Sample Date		Client Info		07 Dec 2023	12 Sep 2023	17 May 2023
Machine Age	mls	Client Info		203083	192903	179298
Oil Age	mls	Client Info		192903	0	179298
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	ABNORMAL	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	27	27	26
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		6	18	4
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	3	1	2
Lead	ppm	ASTM D5185m	>30	0	0	0
Copper	ppm	ASTM D5185m	>150	2	2	2
Tin	ppm	ASTM D5185m	>5	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	6	6	8
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	81	50	54
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	950	782	745	900
Calcium	ppm	ASTM D5185m	1050	1104	1326	1259
Phosphorus	ppm	ASTM D5185m	995	837	895	1012
Zinc	ppm	ASTM D5185m	1180	1115	1145	1291
Sulfur	ppm	ASTM D5185m	2600	2818	3447	3684
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	7	7	8
Sodium	ppm	ASTM D5185m		A 314	▲ 84	1
Potassium	ppm	ASTM D5185m	>20	287	▲ 68	2
Glycol	%	*ASTM D2982		0.10	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.5	0.6
Nitration	Abs/cm	*ASTM D7624	>20	11.4	10.7	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	22.5	22.6
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.3	18.6	19.8
Base Number (BN)	mg KOH/g	ASTM D2896		7.2	5.8	5.7
	39					



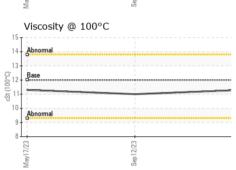
OIL ANALYSIS REPORT

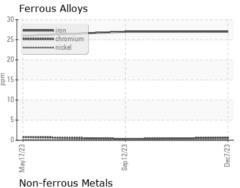


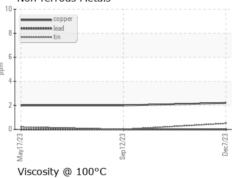
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

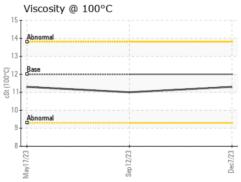
Base Number	r	
8.0		
=7.0		 -
Š 6.0+		
≥5.0+		
7.0 6.0 5.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1		
Ē 3.0		
N 20		
88 2.0 T		
1.0		
0.0	53	
2/11	Sep12/23	
May17/23	Sep	
Viscosity @ 1	00°C	

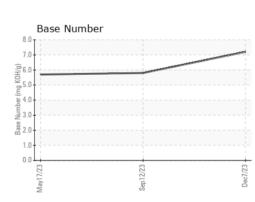
FLUID PROP	ERTIES	method	limit/base	current	history1	history
Visc @ 100°C	cSt	ASTM D445	12.00	11.3	11.0	11.3
GRAPHS						













Laboratory Sample No. Lab Number Unique Number : 10795705

: PCA0110528 : 06040476

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 20 Dec 2023

Diagnosed : 21 Dec 2023 Diagnostician : Don Baldridge

Test Package: FLEET (Additional Tests: FT-IR(Diff), Glycol) 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)

Transervice - Shop 1376 - Berkeley-Linden

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Contact: Shop 1376 Oil Analysis

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