

PROBLEM SUMMARY

(TB7367) S0916A-Suamico

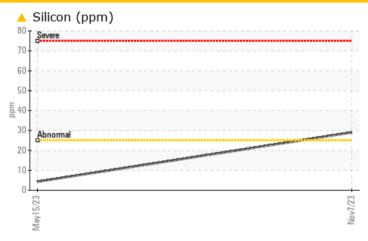
Component

Front Center Diesel Engine

PETRO CANADA DURON SHP 15W40 (42 QTS)

Sample Rating Trend DIRT May 2023 Nord2023

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status	NORMAL								
Silicon	ppm	ASTM D5185m	>25	^ 29	4				

Customer Id: GFL916A
Sample No.: GFL0095962
Lab Number: 06008007
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
Sean Felton +1 919-379-4092
sfelton@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.			

HISTORICAL DIAGNOSIS

15 May 2023 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

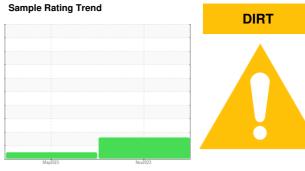
OIL ANALYSIS REPORT

(TB7367) S0916A-Suamico

Component

Front Center Diesel Engine

PETRO CANADA DURON SHP 15W40 (42 QTS)



DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

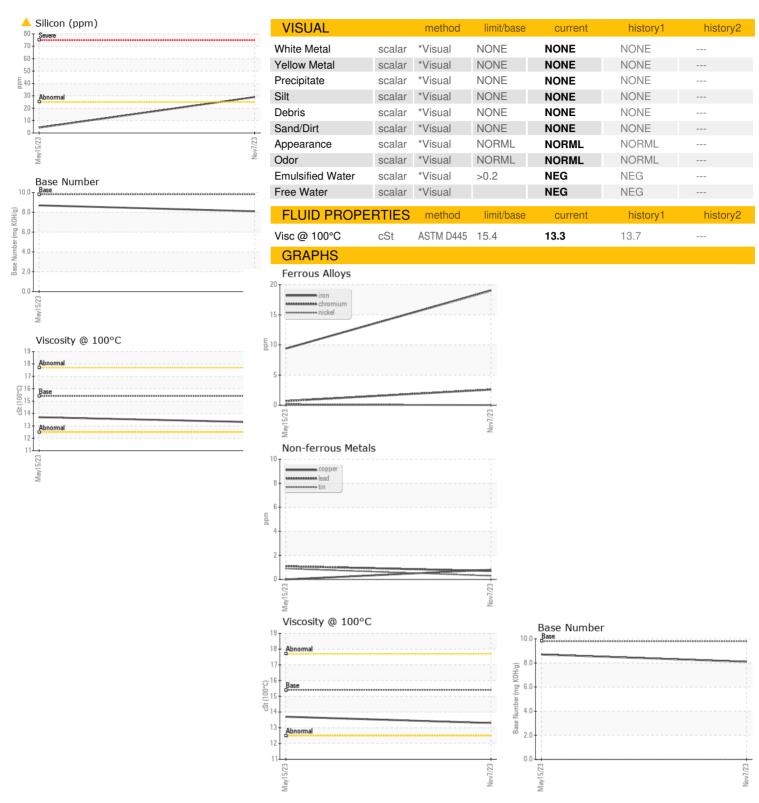
Fluid Condition

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

QTS)			May/2023	Nov2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0095962	GFL0074814	
Sample Date		Client Info		07 Nov 2023	15 May 2023	
Machine Age	hrs	Client Info		4095	4061	
Oil Age	hrs	Client Info		288	137	
Oil Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	19	9	
Chromium	ppm	ASTM D5185m	>20	3	<1	
Nickel	ppm	ASTM D5185m	>2	0	<1	
Titanium	ppm	ASTM D5185m	>2	<1	0	
Silver	ppm	ASTM D5185m	>2	<1	0	
Aluminum	ppm	ASTM D5185m	>20	5	5	
Lead	ppm	ASTM D5185m	>40	<1	1	
Copper	ppm	ASTM D5185m	>330	<1	0	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	12	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	69	60	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	1074	955	
Calcium	ppm	ASTM D5185m	1070	1213	1212	
Phosphorus	ppm	ASTM D5185m	1150	1155	1079	
Zinc	ppm	ASTM D5185m	1270	1367	1333	
Sulfur	ppm	ASTM D5185m	2060	3449	4031	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	29	4	
Sodium	ppm	ASTM D5185m		4	2	
Potassium	ppm	ASTM D5185m	>20	13	7	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.4	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	7.9	6.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	19.1	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	14.7	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.1	8.7	
	99					



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Test Package : FLEET

: GFL0095962 : 06008007 : 10741769

Received : 15 Nov 2023 Diagnosed : 16 Nov 2023 : Sean Felton Diagnostician

GFL Environmental - 916A - Suamico

2300 Deerfield Ave E Suamico, WI US 54313 Contact: NICHOLAS WEIDNER

nweidner@gflenv.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)

F:

T: