

PROBLEM SUMMARY

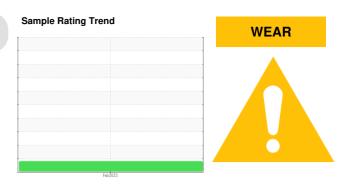


(TB7543) S0916A-Suamico

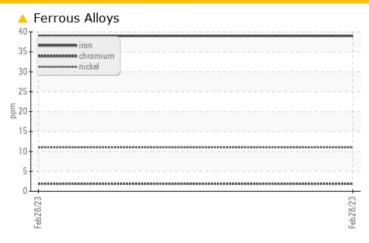
Component

Front Center Diesel Engine

PETRO CANADA DURON SHP 15W40 (42 QTS)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS Sample Status ABNORMAL -- -- Nickel ppm ASTM D5185m >5 \$ 11 -- --

Customer Id: GFL916A
Sample No.: GFL0066964
Lab Number: 05813749
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



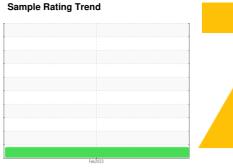
OIL ANALYSIS REPORT



(TB7543) S0916A-Suamico **MACK 913093**

Front Center Diesel Engine

PETRO CANADA DURON SHP 15W40 (42 QTS)





DIAGNOSIS

Recommendation

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

Wear

Valve wear is indicated. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the

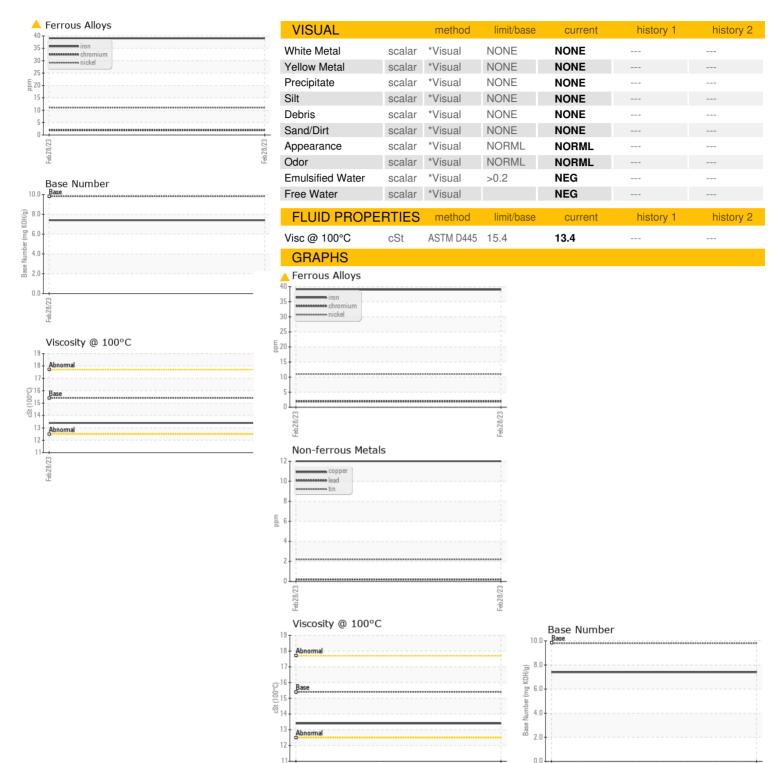
Fluid Condition

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

110111 1011-10(4	L Q 10)			Feb 2023		
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0066964		
Sample Date		Client Info		28 Feb 2023		
Machine Age		Client Info		1842		
Oil Age		Client Info		1842		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>120	39		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>5	<u> 11</u>		
Titanium	ppm	ASTM D5185m	>2	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>20	2		
Lead	ppm	ASTM D5185m	>40	- <1		
Copper	ppm	ASTM D5185m	>330	12		
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m	>10	<1		
Cadmium	ppm	ASTM D5185m		0		
	ррпп		111-0		foto como al	
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	28		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	108		
Manganese	ppm	ASTM D5185m	0	1		
Magnesium	ppm	ASTM D5185m	1010	1315		
Calcium	ppm	ASTM D5185m	1070	1909		
Phosphorus	ppm	ASTM D5185m	1150	1421		
Zinc	ppm	ASTM D5185m	1270	1802		
Sulfur	ppm	ASTM D5185m	2060	3931		
CONTAMINAN	ITS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	8		
Sodium	ppm	ASTM D5185m		7		
Potassium	ppm	ASTM D5185m	>20	5		
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>4	1		
Nitration	Abs/cm	*ASTM D7624	>20	9.0		
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9		
FLUID DEGRAI	NOITAC	method	limit/base	current	history 1	history 2
	37 (11011		mini base	Current	Thistory 1	motory L
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7		



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: GFL0066964 : 05813749 : 10416541 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Apr 2023

Diagnosed : 12 Apr 2023 : Doug Bogart Diagnostician

GFL Environmental - 916A - Suamico

2300 Deerfield Ave E Suamico, WI US 54313

Contact: NICHOLAS WEIDNER

nweidner@gflenv.com

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* - 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: