

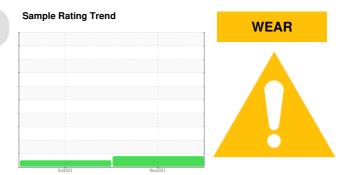
PROBLEM SUMMARY



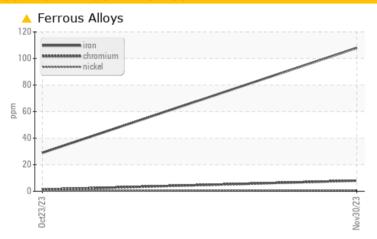


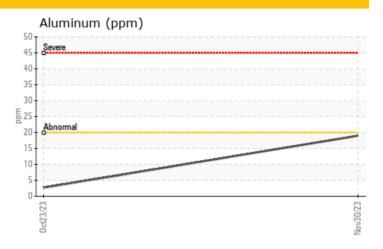
Machine Id 913081 Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (36 QTS)



COMPONENT CONDITION SUMMARY





RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS						
Sample Status				ABNORMAL	NORMAL	
Iron	ppm	ASTM D5185m	>120	108	29	

Customer Id: GFL410 Sample No.: GFL0059312 **Lab Number:** 06027372 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 ihester@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

23 Oct 2023 Diag: Don Baldridge

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

Sample Rating Trend

WEAR

story2



Machine Id 913081 Component **Diesel Engine**

PETRO CANADA DURON

Sodium

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Cylinder, crank, or cam shaft wear is indicated.

Contamination

There is no indication of any contamination in the oil.

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.

ON SHP 15W40 (3	36 QTS)					
`			0ct2023	Nov2023		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	his
Sample Number		Client Info		GFL0059312	GFL0059125	
Sample Date		Client Info		30 Nov 2023	23 Oct 2023	
Machine Age	hrs	Client Info		2694	2360	
Oil Age	hrs	Client Info		2694	2360	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	NORMAL	
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	his
Fuel		WC Method	>3.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	_S	method	limit/base	current	history1	his
Iron	ppm	ASTM D5185m	>120	108	29	
Chromium	ppm	ASTM D5185m	>20	8	1	

Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	<u> </u>	29	
Chromium	ppm	ASTM D5185m	>20	8	1	
Nickel	ppm	ASTM D5185m	>5	<1	<1	
Titanium	ppm	ASTM D5185m	>2	<1	<1	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>20	19	3	
Lead	ppm	ASTM D5185m	>40	<1	0	
Copper	ppm	ASTM D5185m	>330	6	1	
Tin	ppm	ASTM D5185m	>15	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	58	2	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	45	59	
Manganese	ppm	ASTM D5185m	0	2	<1	

Boron	ppm	ASTM D5185m	0	58	2	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	45	59	
Manganese	ppm	ASTM D5185m	0	2	<1	
Magnesium	ppm	ASTM D5185m	1010	526	951	
Calcium	ppm	ASTM D5185m	1070	1741	1114	
Phosphorus	ppm	ASTM D5185m	1150	832	1020	
Zinc	ppm	ASTM D5185m	1270	984	1293	
Sulfur	ppm	ASTM D5185m	2060	2713	2599	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	maa	ASTM D5185m	>25	12	12	

Potassium	ppm	ASTM D5185m	>20	49	2	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.1	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	5.0	14.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	25.7	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	27.5	
Base Number (BN)	ma KOH/a	ASTM D2896	9.8	9.3	6.1	

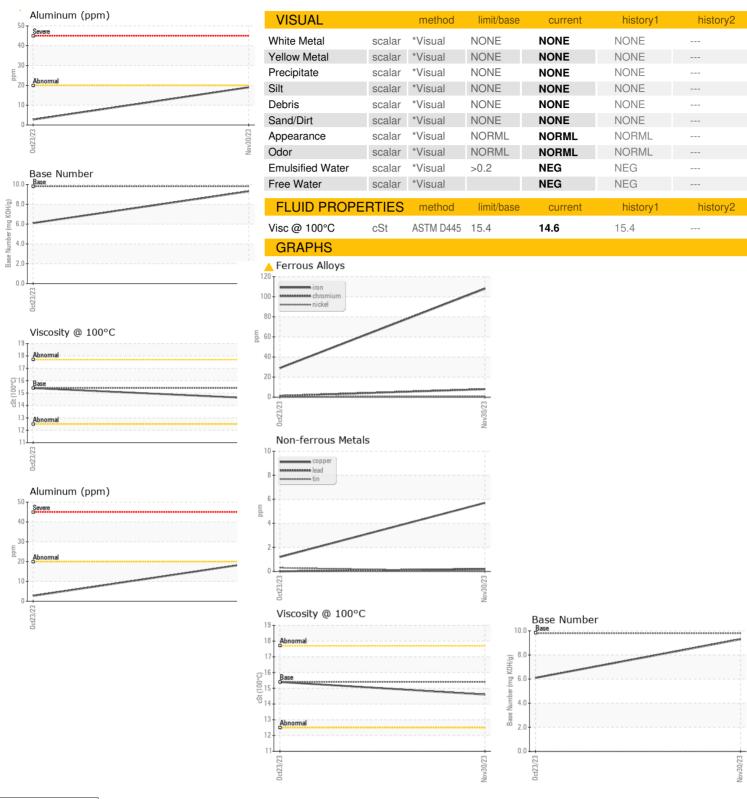
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ASTM D5185m

ppm



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

: GFL0059312 : 06027372 : 10777163 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Dec 2023 Diagnosed : 11 Dec 2023

: Jonathan Hester Diagnostician

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)

GFL Environmental - 410 - Michigan West

39000 Van Born Rd Wayne, MI US 48184

Contact: Belal Dgheish bdgheish@gflenv.com T: (734)714-2340