

PROBLEM SUMMARY



{UNASSIGNED} Machine Id 913184

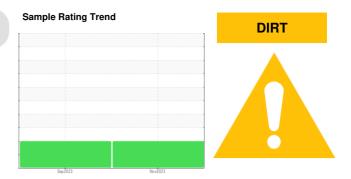
Component

1 Diesel Engine

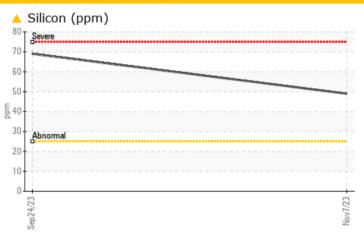
PETRO CANADA DURON SHP 15W40 (9 GAL)

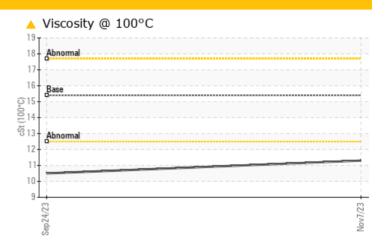
Visc @ 100°C

cSt



COMPONENT CONDITION SUMMARY





RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS Sample Status ABNORMAL --Silicon ppm ASTM D5185m >25 49 69 ---

11.3

10.5

ASTM D445 15.4

Customer Id: GFL405 Sample No.: GFL0097655 Lab Number: 06009338 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

RECOMMEND	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

24 Sep 2023 Diag: Don Baldridge

DIRT



Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.





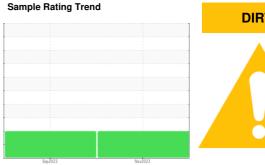
OIL ANALYSIS REPORT



Component

1 Diesel Engine

PETRO CANADA DURON SHP 15W40 (9 GAL)



DIRT

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

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

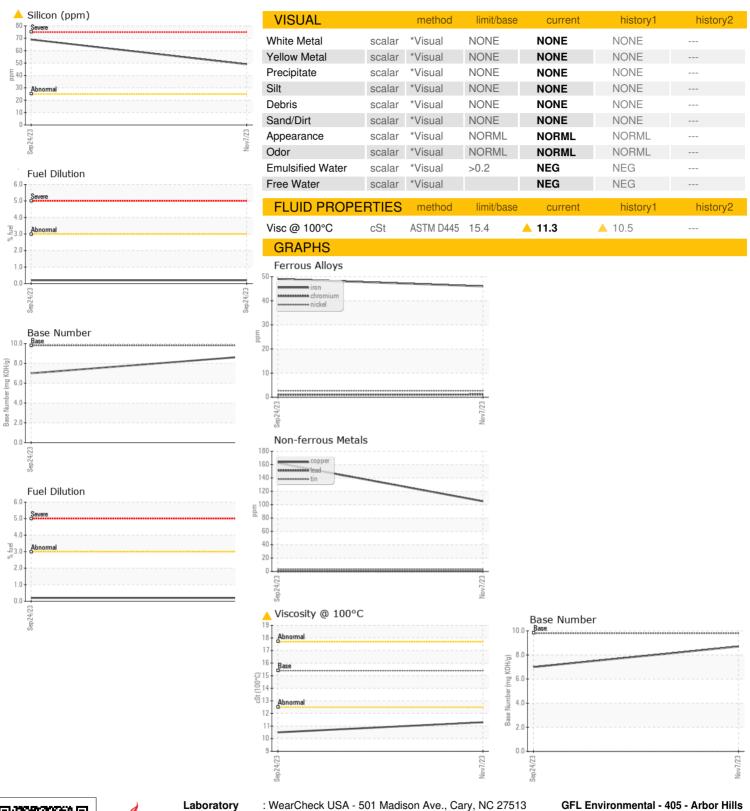
Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

W 3HF 15W40 (9 GAL)		Sep 2023	Nov2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0097655	GFL0087267	
Sample Date		Client Info		07 Nov 2023	24 Sep 2023	
Machine Age	hrs	Client Info		1170	802	
Oil Age	hrs	Client Info		702	802	
Oil Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	46	49	
Chromium	ppm	ASTM D5185m	>20	1	1	
Nickel	ppm	ASTM D5185m	>5	3	3	
Fitanium -	ppm	ASTM D5185m	>2	<1	<1	
Silver	ppm	ASTM D5185m	>2	<1	<1	
Aluminum	ppm	ASTM D5185m	>20	4	3	
_ead	ppm	ASTM D5185m	>40	<1	0	
Copper	ppm	ASTM D5185m	>330	105	162	
Γin	ppm	ASTM D5185m	>15	3	3	
/anadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	51	121	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	92	110	
Manganese	ppm	ASTM D5185m	0	3	4	
Magnesium	ppm	ASTM D5185m	1010	705	725	
Calcium	ppm	ASTM D5185m	1070	1270	1423	
Phosphorus	ppm	ASTM D5185m	1150	716	717	
Zinc	ppm	ASTM D5185m	1270	908	883	
Sulfur	ppm	ASTM D5185m	2060	1987	2131	
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	49	△ 69	
Sodium	ppm	ASTM D5185m		7	3	
Potassium	ppm	ASTM D5185m	>20	5	6	
-uel	%	ASTM D3524	>3.0	<1.0	0.2	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.1	0.9	
Nitration	Abs/cm	*ASTM D7624	>20	6.4	10.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	24.2	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	22.8	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.7	7.0	



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: 06009338 : 10743100

: GFL0097655

Received : 16 Nov 2023 Diagnosed

: 19 Nov 2023 Diagnostician : Don Baldridge

Test Package : FLEET (Additional Tests: FuelDilution) 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.

7400 Napier Rd NORTHVILLE, MI US 48168

Contact: Anthony Hopkins ahopkins@gflenv.com

T: F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)