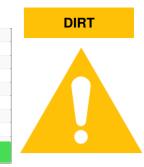


PROBLEM SUMMARY

Sample Rating Trend

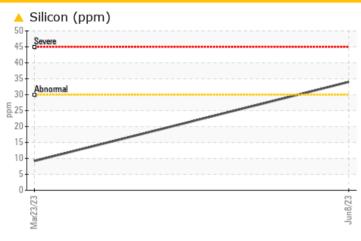


927050

Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor.

PROBLEMATI	C TES	Γ RESULT	S		I NORMAL			
Sample Status				ABNORMAL	NORMAL			
Silicon	ppm	ASTM D5185m	>30	4 34	9			

Customer Id: GFL916
Sample No.: GFL0067008
Lab Number: 05902165
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
Check Dirt Access			?	We advise that you check the air filter, air induction system, and any areas where dirt may enter the component.

HISTORICAL DIAGNOSIS

23 Mar 2023 Diag: Doug Bogart

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

Machine Id **927050** Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal.

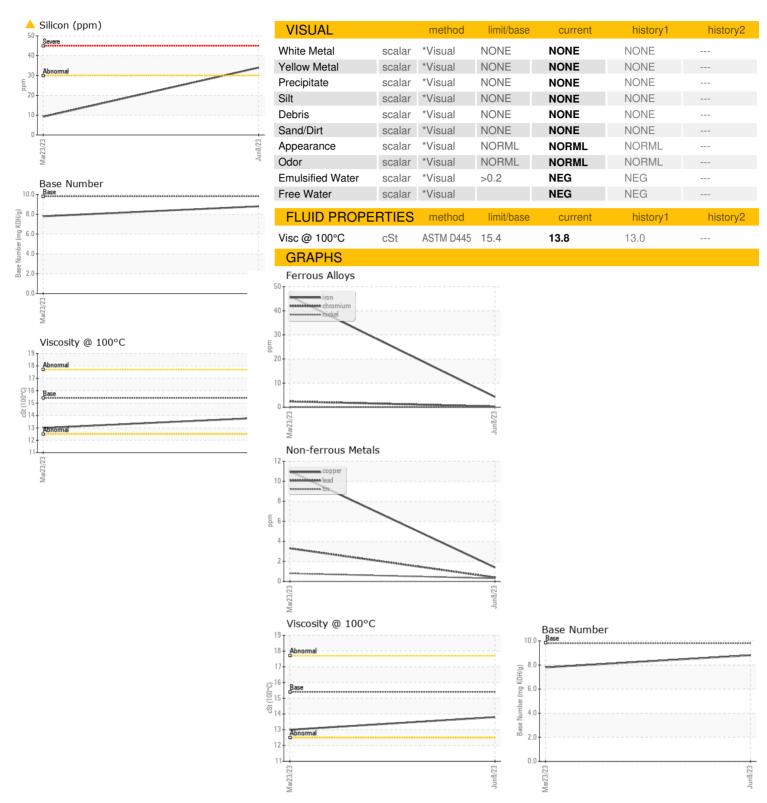
Fluid Condition

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.

GAL)			Mar2023	Jun2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0067008	GFL0067020	
Sample Date		Client Info		08 Jun 2023	23 Mar 2023	
Machine Age	hrs	Client Info		14171	13826	
Oil Age	hrs	Client Info		0	13826	
Oil Changed		Client Info		N/A	Changed	
Sample Status				ABNORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	4	46	
Chromium	ppm	ASTM D5185m		<1	2	
Nickel	ppm	ASTM D5185m	>2	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>25	1	18	
Lead	ppm	ASTM D5185m	>45	<1	3	
Copper	ppm	ASTM D5185m	>85	1	11	
Tin	ppm	ASTM D5185m	>4	<1	<1	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	11	89	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	63	131	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	1018	1335	
Calcium	ppm	ASTM D5185m	1070	1231	2141	
Phosphorus	ppm	ASTM D5185m	1150	1122	1472	
Zinc	ppm	ASTM D5185m	1270	1332	1860	
Sulfur	ppm	ASTM D5185m	2060	4032	4675	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	4 34	9	
Sodium	ppm	ASTM D5185m		3	8	
Potassium	ppm	ASTM D5185m	>20	3	34	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.7	
Nitration	Abs/cm	*ASTM D7624	>20	5.5	9.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9	21.8	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	16.8	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.8	7.8	
, ,						



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number

Unique Number

: GFL0067008 : 05902165 : 10563521 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Jul 2023 Diagnosed : 21 Jul 2023

: Don Baldridge 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 - 916 - Greenbay HC

1799 County Trunk PP DePere, WI US 54115

Contact: Travis Runge travis.runge@gflenv.com T: (920)351-2341

Submitted By: SHEILA IPSEN