

PROBLEM SUMMARY

Sample Rating Trend

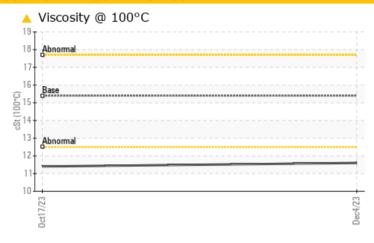
VISCOSITY

Machine Id **414123**

Component Diesel Engine

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Engine)

PROBLEMATIC TEST RESULTS

 Sample Status
 ATTENTION
 ABNORMAL
 --

 Visc @ 100°C
 cSt
 ASTM D445
 15.4
 ▲ 11.6
 ▲ 11.4
 --

Customer Id: GFL983 Sample No.: GFL0094062 Lab Number: 06029143 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		
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

17 Oct 2023 Diag: Wes Davis

FUEL



Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Light fuel dilution occurring. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 414123 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- 0

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Engine)

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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.

AL)						
SAMPLE INFOR	MATION	method	oस्र्येण्यः	current	history1	history2
	IVIATION		IIIIIIVDase			
Sample Number		Client Info		GFL0094062	GFL0094135	
Sample Date Machine Age	mls	Client Info		04 Dec 2023 9412	17 Oct 2023 3829	
Dil Age	mls	Client Info		9412	0	
Oil Changed	11115	Client Info		Changed	N/A	
Sample Status		Ciletit iiilo		ATTENTION	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
uel		WC Method	>5	<1.0	<u>^</u> 2.2	
Vater		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>110	42	16	
Chromium	ppm	ASTM D5185m	>4	<1	<1	
Nickel	ppm	ASTM D5185m	>2	<1	0	
itanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Numinum	ppm	ASTM D5185m	>25	9	6	
.ead	ppm	ASTM D5185m	>45	0	0	
Copper	ppm	ASTM D5185m	>85	12	11	
in	ppm	ASTM D5185m	>4	<1	0	
/anadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	26	4 9	
Barium	ppm	ASTM D5185m	0	<1	3	
Nolybdenum	ppm	ASTM D5185m	60	20	<u> </u>	
/langanese	ppm	ASTM D5185m	0	5	5	
/lagnesium	ppm	ASTM D5185m	1010	594	677	
Calcium	ppm	ASTM D5185m	1070	1553	1415	
Phosphorus	ppm	ASTM D5185m	1150	767	783	
Zinc	ppm	ASTM D5185m	1270	945	915	
Sulfur	ppm	ASTM D5185m	2060	2900	2919	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	18	20	
Sodium	ppm	ASTM D5185m		4	2	
Potassium	ppm	ASTM D5185m	>20	30	20	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.3	
Vitration	Abs/cm	*ASTM D7624	>20	10.5	8.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	18.9	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	14.7	

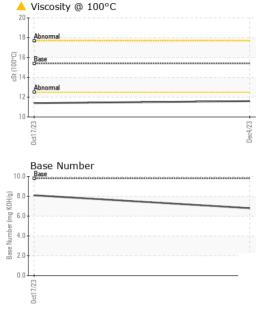
Base Number (BN) mg KOH/g ASTM D2896 9.8

8.1

6.8



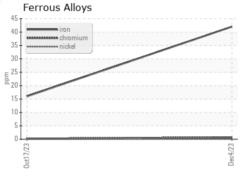
OIL ANALYSIS REPORT

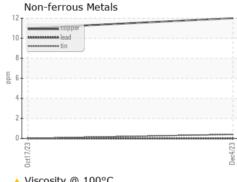


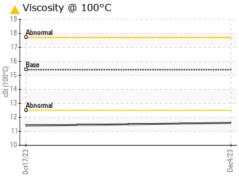
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPE	RTIES	method	limit/hase	current	history1	history2

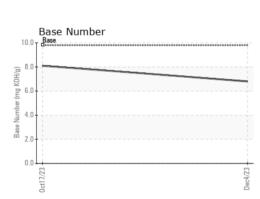
FLUID PROPE	EKIIES	method	iimit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	11.6	<u> </u>	

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10778934 Test Package : FLEET

: GFL0094062 : 06029143

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 08 Dec 2023 : 11 Dec 2023 Diagnostician : Don Baldridge GFL Environmental - 983 - Sugar Land Hauling 16011 West Belfort Street

Sugar Land, TX US 77498 Contact: Gino Griego ggriego@gflenv.com T: (720)999-0726

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)