

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

(80J3TW) GFL837 Machine Id 722023-310031 Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

PLINO CANADA DUNUN SIIP ISW40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0103268	GFL0098591	GFL0098594
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		25 Jan 2024	28 Nov 2023	21 Nov 2023
	Machine Age	hrs	Client Info		22512	22181	22133
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Changed	N/A
	Filter Changed		Client Info		Not Changd	Changed	N/A
	Sample Status				NORMAL	SEVERE	SEVERE
WEAR	Iron	ppm	ASTM D5185m	>100	6	43	50
WEAR	Chromium	ppm	ASTM D5185m		<1	2	2
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	1
	Titanium	ppm	ASTM D5185m	- 1	0	0	<1
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m		2	3	3
	Lead	ppm	ASTM D5185m		2	<1	<1
	Copper	ppm	ASTM D5185m		0	25	33
	Tin	ppm	ASTM D5185m		<1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
					•	_	
CONTAMINATION	Silicon	ppm	ASTM D5185m		3	7	10
Light fuel dilution occurring. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185m		<1	3	4
	Fuel	%	ASTM D3524		1.1	21.4	18.2
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.5	1	0.9
	Nitration	Abs/cm	*ASTM D7624	>20	5.8	12.8 26.7	12.4
	Sulfation	Abs/.1mm	*ASTM D7415 *Visual	>30 NONE	18.4 NONE	26.7 NONE	26.4 NONE
	Silt Debris	scalar scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		26	16	16
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		6	<1	2
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		56	39	51
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		883	680	756
	Calcium	ppm	ASTM D5185m		1043	809	881
	Phosphorus	ppm	ASTM D5185m		972	695	790
	Zinc	ppm	ASTM D5185m		1214	913	998
	Sulfur	ppm	ASTM D5185m	2060	2993	1661	1986

Oxidation

Visc @ 100°C cSt

Contact/Location: See also GFL823, 834, 837, 840 - Robert Hart - GFL836

13.5

8.8

14.1

33.2

3.5

9.9

Abs/.1mm *ASTM D7414 >25

ASTM D445 15.4

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

31.8

9.8 🛑

4.0

