

OIL ANALYSIS REPORT

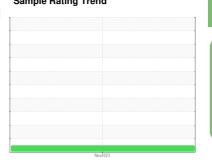
Sample Rating Trend

NORMAL



Machine Id **913047** Component **Diesel Engine**

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





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

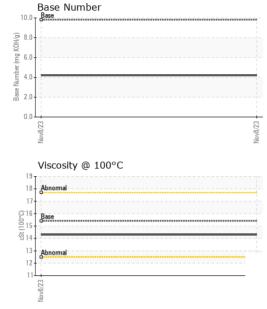
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

N SHP 15W40 (- GAL)			Nov2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0059165		
Sample Date		Client Info		08 Nov 2023		
Machine Age	mls	Client Info		49701		
Oil Age	mls	Client Info		49701		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
-uel		WC Method	>3.0	<1.0		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>90	81		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m	>2	0		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>20	2		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	4		
 Γin	ppm	ASTM D5185m	>15	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	7		
Barium	ppm	ASTM D5185m	0	6		
Molybdenum	ppm	ASTM D5185m	60	79		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	1010	1141		
Calcium	ppm	ASTM D5185m	1070	1359		
Phosphorus	ppm	ASTM D5185m	1150	1259		
Zinc	ppm	ASTM D5185m	1270	1531		
Sulfur	ppm	ASTM D5185m	2060	3772		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9		
Sodium	ppm	ASTM D5185m		10		
Potassium	ppm	ASTM D5185m	>20	4		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	1.2		
Nitration	Abs/cm	*ASTM D7624	>20	15.0		
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.1		
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	32.7		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	4.2		



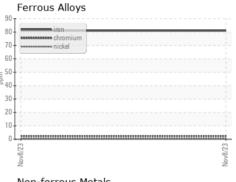
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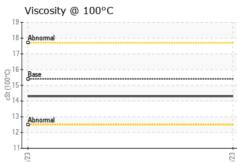
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		
	DTIEO		Para Difference		la facilita de la constanti	la la tarre O

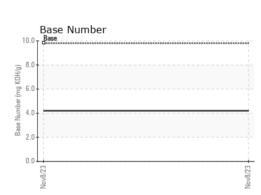
FLUID FROF	LULIES	method			HISTOLAL	HISTORY
Visc @ 100°C	cSt	ASTM D445	15.4	14.3		

GRAPHS



¹⁰ T	Non-ferrous Metals	
8 -	RESERVERANCE Jead	
6-		
4-		
2-		
01	7/0000	Nov8/73









Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10740451

: GFL0059165 : 06006689 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Nov 2023 Diagnosed : 15 Nov 2023 Diagnostician : Don Baldridge

GFL Environmental - 410 - Michigan West

39000 Van Born Rd Wayne, MI US 48184 Contact: Belal Dgheish

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

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)