

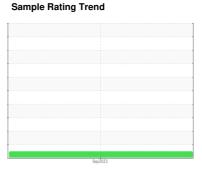
OIL ANALYSIS REPORT



Area (UNASSIGNED) 934031

Component **Natural Gas Engine**

PETRO CANADA DURON SHP 15W40 (8)





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

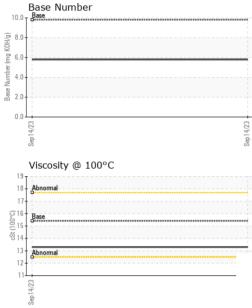
Fluid Condition

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

ON SHP 15W40	(6)			Sep2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0094335		
Sample Date		Client Info		14 Sep 2023		
Machine Age	hrs	Client Info		147		
Oil Age	hrs	Client Info		147		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	37		
Chromium	ppm	ASTM D5185m	>4	<1		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>9	8		
_ead	ppm	ASTM D5185m	>30	<1		
Copper	ppm	ASTM D5185m	>35	16		
 Γin	ppm	ASTM D5185m	>4	<1		
/anadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	35		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	47		
Manganese	ppm	ASTM D5185m	0	13		
Magnesium	ppm	ASTM D5185m	1010	757		
Calcium	ppm	ASTM D5185m	1070	1103		
Phosphorus	ppm	ASTM D5185m	1150	761		
Zinc	ppm	ASTM D5185m	1270	881		
Sulfur	ppm	ASTM D5185m	2060	3054		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	32		
Sodium	ppm	ASTM D5185m		5		
Potassium	ppm	ASTM D5185m	>20	31		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1		
Nitration	Abs/cm	*ASTM D7624	>20	8.3		
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.8		
FLUID DEGRA	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.7		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.8		



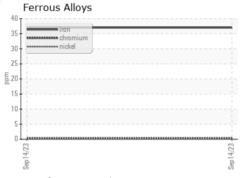
OIL ANALYSIS REPORT



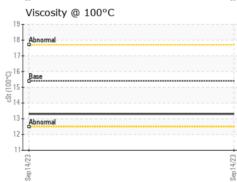
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.1	NEG		
Free Water	scalar	*Visual		NEG		
FLUID DDODE	DTIES				111	1111

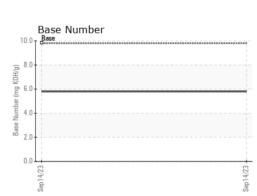
FLUID PROPI	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3		

GRAPHS



cop			
2 - manananan tin			
0-			
8			
6			
4			
2			
0	 	 	
Sep14/23			







Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10654958

: GFL0094335 : 05953745 Test Package : FLEET

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

: 18 Sep 2023 : 20 Sep 2023 Diagnostician : Don Baldridge GFL Environmental - 010 - Stockbridge 1280 Rum Creek Parkway Stockbridge, GA

US 30281 Contact: JOSHUA TINKER

joshuatinker@gflenv.com

T: F:

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)