

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 820046 Component Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

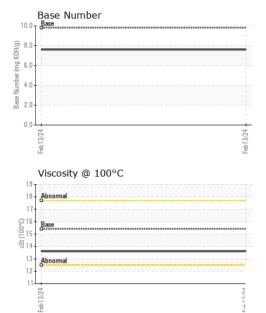
Fluid Condition

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)			Feb 2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0111167		
Sample Date		Client Info		13 Feb 2024		
Machine Age	hrs	Client Info		0		
Dil Age	hrs	Client Info		600		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	TION	method	limit/base	current	history1	history2
uel		WC Method	>3.0	<1.0		
Vater		WC Method	>0.2	NEG		
Slycol		WC Method		NEG		
WEAR METAL	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	13		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>5	<1		
itanium	ppm	ASTM D5185m	>2	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>20	1		
_ead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	9		
- Tin	ppm	ASTM D5185m	>15	<1		
/anadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4		
Barium	ppm	ASTM D5185m	0	0		
Nolybdenum	ppm	ASTM D5185m	60	58		
Manganese	ppm	ASTM D5185m	0	<1		
//agnesium	ppm	ASTM D5185m	1010	897		
Calcium	ppm	ASTM D5185m	1070	1000		
Phosphorus	ppm	ASTM D5185m	1150	965		
Zinc	ppm	ASTM D5185m	1270	1133		
Sulfur	ppm	ASTM D5185m	2060	2829		
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.5		
Vitration	Abs/cm	*ASTM D7624	>20	7.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.6		

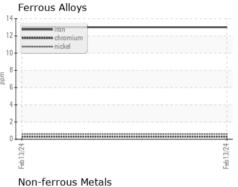


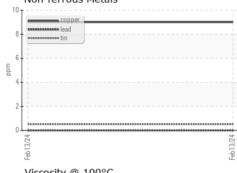
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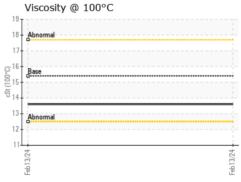


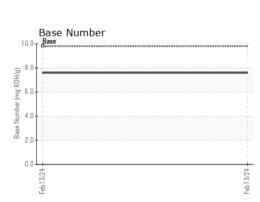
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML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

FLUID PROPE	ERITES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6		











Certificate L2367

Laboratory Sample No. Lab Number : 06093963

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0111167

Unique Number : 10886816 Test Package : FLEET

Received **Tested** Diagnosed

: 20 Feb 2024 : 21 Feb 2024

: 21 Feb 2024 - Wes Davis

GFL Environmental - 960B - Pittsfield HC

1335 W. Washington Pittsfield, IL US 62363

Contact: David Bradshaw david.bradshaw@gflenv.com

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)

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