

# **OIL ANALYSIS REPORT**

# Sample Rating Trend

# NORMAL



712034
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

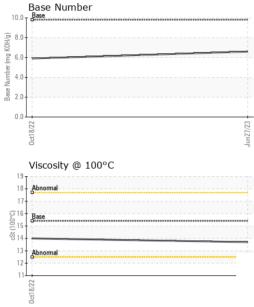
# **Fluid Condition**

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

N 30P 13W40 (	GAL)		Oct2022	Jun2023		
SAMPLE INFOR	RMATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0086688	GFL0057265	
Sample Date		Client Info		27 Jun 2023	18 Oct 2022	
Machine Age	hrs	Client Info		5259	3162	
Oil Age	hrs	Client Info		3162	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINA	TION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>3.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METAI	LS	method	limit/base	current	history 1	history 2
ron	ppm	ASTM D5185m	>90	33	48	
Chromium	ppm	ASTM D5185m		<1	1	
Nickel		ASTM D5185m	>2	<1	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m		3	6	
	ppm			ડ <1		
Lead	ppm	ASTM D5185m	>40	<1 1	0	
Copper	ppm	ASTM D5185m		-	2	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	1	2	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	61	59	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	936	911	
Calcium	ppm	ASTM D5185m	1070	1111	1090	
Phosphorus	ppm	ASTM D5185m	1150	1002	974	
Zinc	ppm	ASTM D5185m	1270	1281	1195	
Sulfur	ppm	ASTM D5185m	2060	2696	3043	
CONTAMINA	NTS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	4	7	
Sodium	ppm	ASTM D5185m		6	6	
Potassium	ppm	ASTM D5185m	>20	4	3	
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>6	0.8	1.1	
Nitration	Abs/cm	*ASTM D7624	>20	10.4	13.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	27.5	
FLUID DEGRA	DATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.7	25.8	
Base Number (BN)				6.6	5.9	
	- 0					



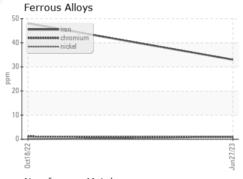
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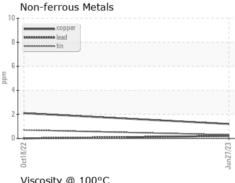


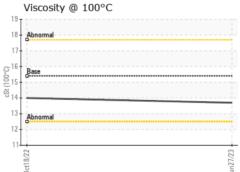
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
ELLIID DRODE	DTIES	method	limit/hase	current	history 1	history 2

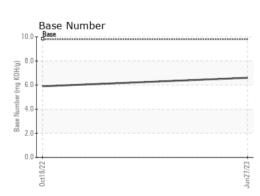
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Visc @ 100°C	cSt	ASTM D445	15.4	13.7	14.0	

# **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10537761 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0086688 : 05887278

Received Diagnosed

: 29 Jun 2023 : 02 Jul 2023 Diagnostician : Wes Davis

GFL Environmental - 415 - Michigan East 6200 Elmridge Sterling Heights, MI

US 48313 Contact: Frank Wolak fwolak@gflenv.com T: (586)825-9514

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)