

# **OIL ANALYSIS REPORT**

# Sample Rating Trend

# NORMAL NORMAL



Machine Id 921019 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

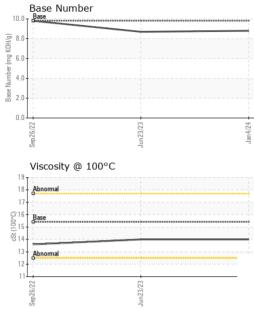
# **Fluid Condition**

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

14 3111 1344-0 (-		Seg	2022	Jun 2023 Jan 20	24		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0086751	GFL0071270	GFL0056047	
Sample Date		Client Info		04 Jan 2024	23 Jun 2023	26 Sep 2022	
Machine Age	hrs	Client Info		31554	30447	28497	
Oil Age	hrs	Client Info		31554	30447	28497	
Oil Changed		Client Info		Changed	Not Changd	Not Changd	
Sample Status				NORMAL	ATTENTION	NORMAL	
CONTAMINA	TION	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAI	LS	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>120	8	7	7	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>5	<1	0	0	
Titanium	ppm	ASTM D5185m	>2	<1	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	9	6	7	
Lead	ppm	ASTM D5185m	>40	<1	0	<1	
Copper	ppm	ASTM D5185m	>330	<1	<1	<1	
Tin	ppm	ASTM D5185m	>15	<1	0	<1	
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	2	3	6	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	64	65	61	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	1022	1019	904	
Calcium	ppm	ASTM D5185m	1070	1092	1115	1049	
Phosphorus	ppm	ASTM D5185m	1150	1104	1086	974	
Zinc	ppm	ASTM D5185m	1270	1302	1351	1188	
Sulfur	ppm	ASTM D5185m	2060	3332	3907	3396	
CONTAMINA	NTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	6	4	4	
Sodium	ppm	ASTM D5185m		66	<b>A</b> 84	15	
Potassium	ppm	ASTM D5185m	>20	7	14	5	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.2	0.2	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	7.4	7.6	8.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	19.5	20.8	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	16.8	17.5	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.8	8.7	9.8	



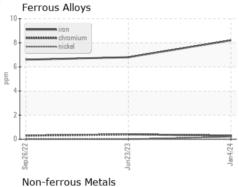
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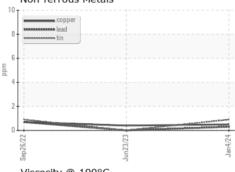


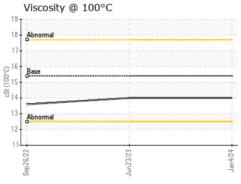
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

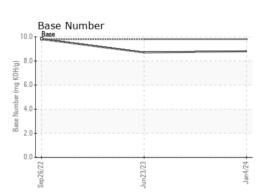
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Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.0	13.6

# **GRAPHS**











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10844930

: GFL0086751 : 06068253 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 23 Jan 2024 Diagnosed

: 24 Jan 2024 Diagnostician : Wes Davis

GFL Environmental - 932 - Muskego HC

W144 S6400 College Ct. Muskego, WI US 53150

Contact: Brian Schlomann brian.schlomann@gflenv.com T: (262)510-4586

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)