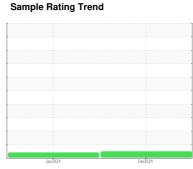


# **OIL ANALYSIS REPORT**

Sam



NORMAL



Machine Id **517005** 

Component **Diesel Engine** 

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

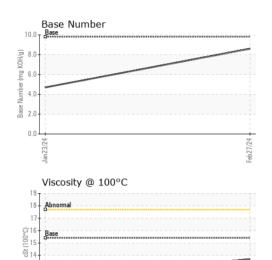
## **Fluid Condition**

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

GAL)			Jan2024	Feb.2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092550	GFL0100396	
Sample Date		Client Info		27 Feb 2024	23 Jan 2024	
Machine Age	hrs	Client Info		10020	9774	
Oil Age	hrs	Client Info		246	571	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ATTENTION	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	0.2	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL:	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	13	38	
Chromium	ppm	ASTM D5185m	>5	<1	2	
Nickel	ppm	ASTM D5185m	>2	0	0	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>30	7	20	
Lead	ppm	ASTM D5185m	>30	0	0	
Copper	ppm	ASTM D5185m	>150	2	6	
Tin	ppm	ASTM D5185m	>5	0	<1	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	8	36	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	58	59	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	1015	416	
Calcium	ppm	ASTM D5185m	1070	1339	1720	
Phosphorus	ppm	ASTM D5185m	1150	1175	952	
Zinc	ppm	ASTM D5185m	1270	1380	1226	
Sulfur	ppm	ASTM D5185m	2060	3563	3030	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	3	4	
Sodium	ppm	ASTM D5185m		1	2	
Potassium	ppm	ASTM D5185m	>20	8	31	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	6.7	8.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	20.3	
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	17.2	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	4.7	



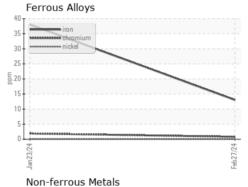
# **OIL ANALYSIS REPORT**

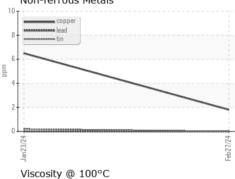


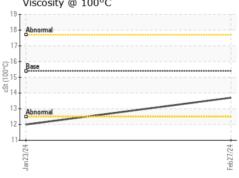
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML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

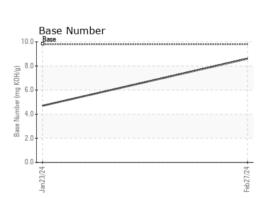
LLUID PROPI	EHIIES	memod			riistory i	Historyz
/isc @ 100°C	cSt	ASTM D445	15.4	13.7	12.0	

## **GRAPHS**











Laboratory Sample No.

Lab Number : 06108018 Unique Number : 10911515

: GFL0092550 Test Package : FLEET

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

: 04 Mar 2024 : 05 Mar 2024 Diagnosed : 05 Mar 2024 - Wes Davis

GFL Environmental - 935 - Omro HC 250 Alder Avenue

Omro, WI US 54963 Contact: Tim Kieffer

tim.kieffer@gflenv.com T: (608)219-0288

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)