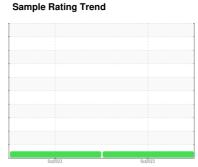


OIL ANALYSIS REPORT



NORMAL



Machine Id **820007**

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- GAL)

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

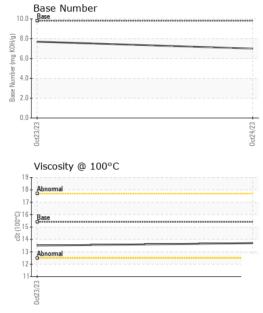
Fluid Condition

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

GAL)			0et2023	0ct2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0066990	GFL0066988	
Sample Date		Client Info		24 Oct 2023	23 Oct 2023	
Machine Age	hrs	Client Info		6710	6710	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	14	11	
Chromium	ppm		>4	<1	<1	
Nickel	ppm	ASTM D5185m	>2	<1	0	
Titanium	ppm	ASTM D5185m	/ <u>L</u>	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>25	4	3	
Lead	ppm	ASTM D5185m	>45	<1	0	
Copper	ppm	ASTM D5185m	>85	1	<1	
Tin	ppm	ASTM D5185m	>4	0	0	
Vanadium	ppm	ASTM D5185m	24	0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES	ррпп	method	limit/base	current	history1	history2
						· ·
Boron	ppm	ASTM D5185m	0	6	2	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	62	62	
Manganese	ppm	ASTM D5185m	0	0	0	
Magnesium	ppm	ASTM D5185m	1010	900	938	
Calcium	ppm	ASTM D5185m	1070	1097	1099	
Phosphorus	ppm	ASTM D5185m	1150	857	918	
Zinc	ppm	ASTM D5185m	1270	1205	1240	
Sulfur	ppm	ASTM D5185m	2060	2753	3058	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	4	4	
Sodium	ppm	ASTM D5185m		2	0	
Potassium	ppm	ASTM D5185m	>20	5	6	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.6	
Nitration	Abs/cm	*ASTM D7624	>20	8.6	8.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	21.2	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	16.8	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.0	7.7	



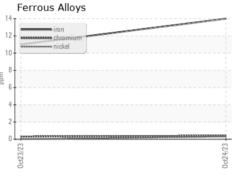
OIL ANALYSIS REPORT

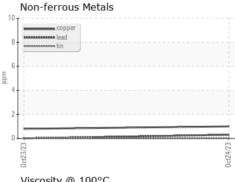


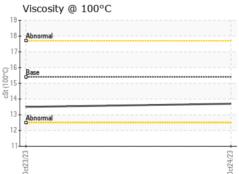
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

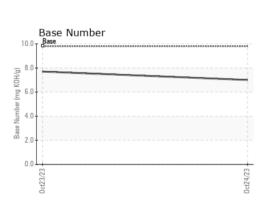
FLUID PROPE	ERITES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.5	

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number

: 06002112 Unique Number : 10735874 Test Package : FLEET

: GFL0066990

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Nov 2023 Diagnosed : 09 Nov 2023 Diagnostician : Wes Davis

GFL Environmental - 916 - Greenbay HC 1799 County Trunk PP DePere, WI

US 54115 Contact: Travis Runge travis.runge@gflenv.com T: (920)351-2341

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)

Report Id: GFL916 [WUSCAR] 06002112 (Generated: 11/12/2023 18:46:44) Rev: 1

Contact/Location: Travis Runge - GFL916