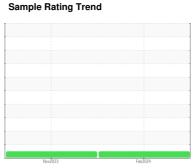


OIL ANALYSIS REPORT



NORMAL



Machine Id **523105** Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (---

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

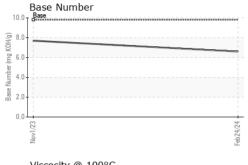
Fluid Condition

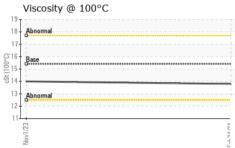
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)			Nov2023	Feb 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0107106	GFL0091081	
Sample Date		Client Info		24 Feb 2024	01 Nov 2023	
Machine Age	hrs	Client Info		1199	533	
Oil Age	hrs	Client Info		666	533	
Oil Changed		Client Info		Changed	N/A	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
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	>110	49	43	
Chromium	ppm	ASTM D5185m	>4	2	3	
Nickel	ppm	ASTM D5185m	>2	2	2	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>2	<1	<1	
Aluminum	ppm	ASTM D5185m	>25	2	3	
Lead	ppm	ASTM D5185m	>45	3	6	
Copper	ppm	ASTM D5185m	>85	8	20	
Tin	ppm	ASTM D5185m	>4	2	4	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	2	
Barium	ppm	ASTM D5185m	0	4	17	
Molybdenum	ppm	ASTM D5185m	60	57	49	
Manganese	ppm	ASTM D5185m	0	2	4	
Magnesium	ppm	ASTM D5185m	1010	1047	810	
Calcium	ppm	ASTM D5185m	1070	1300	1428	
Phosphorus	ppm	ASTM D5185m	1150	1096	929	
Zinc	ppm	ASTM D5185m	1270	1299	1224	
Sulfur	ppm	ASTM D5185m	2060	2955	2783	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	13	29	
Sodium	ppm	ASTM D5185m		6	6	
Potassium	ppm	ASTM D5185m	>20	2	8	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.2	0.9	
Nitration	Abs/cm	*ASTM D7624	>20	10.5	9.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	21.0	
FLUID DEGRAD			limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	15.3	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.6	7.7	



OIL ANALYSIS REPORT

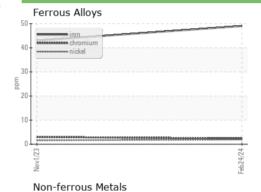


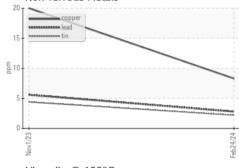


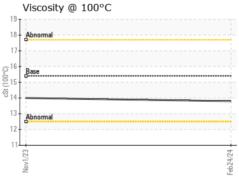
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	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	

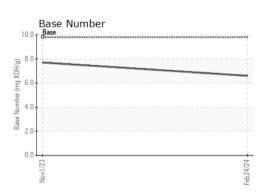
FLUID PROPE	ERITES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	14.0	

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number : 06108030 Unique Number: 10911527

Test Package : FLEET

: GFL0107106

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

: 04 Mar 2024 : 05 Mar 2024

: 05 Mar 2024 - Wes Davis

GFL Environmental - 996 - Viroqua WI Southwest

950 Nelson Parkway Viroqua, WI US 54665

Contact: Shawn Burke sburke@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)

T:

F: