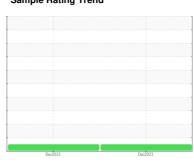


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 711040 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- 0

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

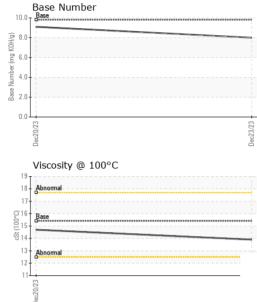
Fluid Condition

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

GAL)			Dec2023	T Dec2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0105814	GFL0105846	
Sample Date		Client Info		23 Dec 2023	20 Dec 2023	
Machine Age	hrs	Client Info		2957	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Not Changd	
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	>100	31	0	
Chromium	ppm	ASTM D5185m	>20	1	0	
Nickel	ppm	ASTM D5185m	>2	<1	<1	
Titanium	ppm	ASTM D5185m	>2	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>25	7	<1	
Lead	ppm	ASTM D5185m	>40	2	0	
Copper	ppm	ASTM D5185m	>330	1	<1	
Tin	ppm	ASTM D5185m	>15	<1	0	
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	4	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	60	59	
Manganese	ppm	ASTM D5185m	0	0	<1	
Magnesium	ppm	ASTM D5185m	1010	921	950	
Calcium	ppm	ASTM D5185m	1070	1063	1022	
Phosphorus	ppm	ASTM D5185m	1150	981	1127	
Zinc	ppm	ASTM D5185m	1270	1210	1278	
Sulfur	ppm	ASTM D5185m	2060	3111	3253	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	5	
Sodium	ppm	ASTM D5185m		54	2	
Potassium	ppm	ASTM D5185m	>20	17	<1	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.1	0	
Nitration	Abs/cm	*ASTM D7624	>20	12.4	4.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1	17.2	
FLUID DEGRA	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.4	12.8	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.0	9.1	



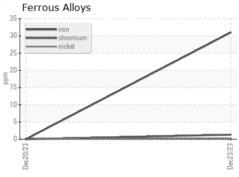
OIL ANALYSIS REPORT

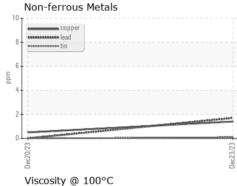


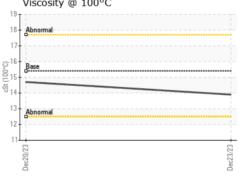
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

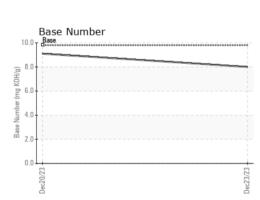
FLUID PROP	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.7	

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10806455 Test Package : FLEET

: GFL0105814 : 06045847

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 27 Dec 2023 Diagnosed : 28 Dec 2023

Diagnostician : Wes Davis

6200 Elmridge Sterling Heights, MI US 48313 Contact: Frank Wolak fwolak@gflenv.com T: (586)825-9514

GFL Environmental - 415 - Michigan East

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: GFL415 [WUSCAR] 06045847 (Generated: 12/28/2023 10:44:39) Rev: 1

Submitted By: Frank Wolak