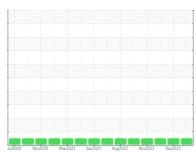


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



920097-260370

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.

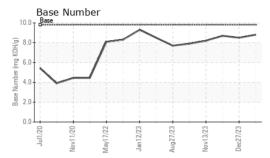
Fluid Condition

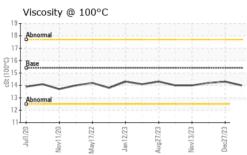
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		JUI2020 19	ovzuzu mayzuzz Jar	2023 Aug2023 Nov2023	Dec2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0108158	GFL0102501	GFL0102526	
Sample Date		Client Info		16 Jan 2024	27 Dec 2023	04 Dec 2023	
Machine Age	hrs	Client Info		9571	9447	9296	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		Not Changd	N/A	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	3	4	2	
Chromium	ppm	ASTM D5185m	>20	0	0	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	0	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	1	1	<1	
Lead	ppm	ASTM D5185m	>40	0	0	<1	
Copper	ppm	ASTM D5185m	>330	<1	<1	<1	
Tin	ppm	ASTM D5185m	>15	0	<1	0	
Vanadium	ppm	ASTM D5185m		0	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	5	2	<1	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	55	57	57	
Manganese	ppm	ASTM D5185m	0	<1	<1	0	
Magnesium	ppm	ASTM D5185m	1010	886	922	928	
Calcium	ppm	ASTM D5185m	1070	966	1027	991	
Phosphorus	ppm	ASTM D5185m	1150	923	1008	861	
Zinc	ppm	ASTM D5185m	1270	1217	1234	1202	
Sulfur	ppm	ASTM D5185m	2060	2925	2959	3042	
CONTAMINANTS method limit/base current history1 history2							
Silicon	ppm	ASTM D5185m	>25	4	2	4	
Sodium	ppm	ASTM D5185m		24	2	<1	
Potassium	ppm	ASTM D5185m	>20	<1	1	<1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.2	
Nitration	Abs/cm	*ASTM D7624		5.2	6.1	5.1	
Sulfation	Abs/.1mm	*ASTM D7415		17.9	18.8	18.0	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	14.0	13.4	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.8	8.5	8.7	
_acc (allipol (bi4)	mg normg	. 10 1 11 1 1 1 1 1 1	0.0	0.0	0.0	0.1	



OIL ANALYSIS REPORT

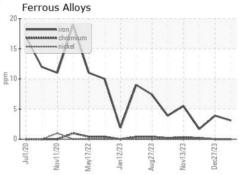


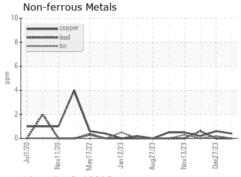


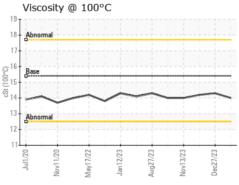
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

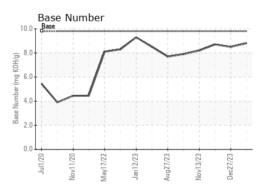
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.3	14.2	

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10844081 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0108158 : 06067404

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Recieved

: 22 Jan 2024 : 23 Jan 2024

Diagnosed Diagnostician : Wes Davis GFL Environmental - 837 - Harrison TS 22820 S State Route 291

Harrisonville, MO US 64701

Contact: BRYAN SWANSON bryanswanson@gflenv.com

T: F:

* - 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)