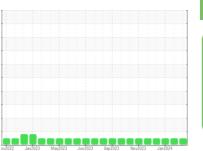


OIL ANALYSIS REPORT

Sample Rating Trend









713019
Component
Diesel Engine
Fluid

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

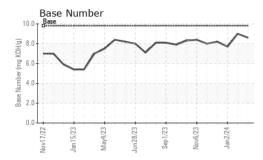
Fluid Condition

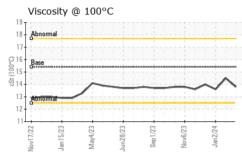
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

<u> </u>		ov2022 Jan	n2023 May2023 Jun2	023 Sep2023 Nov2023 J	an2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0105266	GFL0105315	GFL0105141	
Sample Date		Client Info		26 Feb 2024	02 Feb 2024	02 Jan 2024	
Machine Age	hrs	Client Info		4406	4281	4126	
Oil Age	hrs	Client Info		200	150	600	
Oil Changed		Client Info		Not Changd	Not Changd	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<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	>120	9	2	14	
Chromium	ppm	ASTM D5185m	>20	1	0	<1	
Nickel	ppm	ASTM D5185m	>5	4	0	3	
Titanium	ppm	ASTM D5185m	>2	<1	0	<1	
Silver	ppm	ASTM D5185m	>2	<1	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	1	1	
Lead	ppm	ASTM D5185m	>40	<1	<1	<1	
Copper	ppm	ASTM D5185m	>330	3	<1	5	
Tin	ppm	ASTM D5185m	>15	1	0	2	
Vanadium	ppm	ASTM D5185m		<1	<1	<1	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	2	0	<1	
Barium	ppm	ASTM D5185m	0	1	0	0	
Molybdenum	ppm	ASTM D5185m	60	54	57	59	
Manganese	ppm	ASTM D5185m	0	1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	821	941	934	
Calcium	ppm	ASTM D5185m	1070	937	1009	1086	
Phosphorus	ppm	ASTM D5185m	1150	876	1028	1011	
Zinc	ppm	ASTM D5185m	1270	1065	1238	1201	
Sulfur	ppm	ASTM D5185m	2060	2961	3195	2871	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	11	3	
Sodium	ppm	ASTM D5185m		2	1	4	
Potassium	ppm	ASTM D5185m	>20	2	4	0	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.5	0	0.8	
Nitration	Abs/cm	*ASTM D7624	>20	6.3	4.0	7.6	
Sulfation	Abs/.1mm	*ASTM D7415		18.8	17.2	19.6	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	12.7	15.0	
	mg KOH/g	ASTM D2896	9.8	8.6	9.0	7.7	
Base Number (BN)							



OIL ANALYSIS REPORT

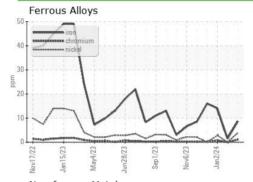


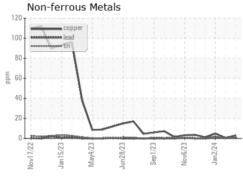


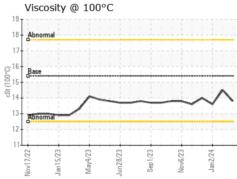
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

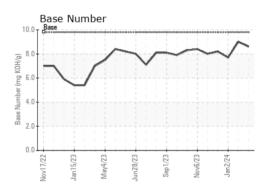
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	14.5	13.6

GRAPHS













Laboratory Sample No.

Lab Number : 06102738

Test Package : FLEET

: GFL0105266 Unique Number : 10900968

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Feb 2024 **Tested**

: 29 Feb 2024 Diagnosed : 29 Feb 2024 - Wes Davis

GFL Environmental - 821 - Ozarks Hauling

33924 Olath Drive Lebanon, MO US 65536

Contact: Landen Johnson landen.johnson@gflenv.com T: (417)664-0010

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: GFL821 [WUSCAR] 06102738 (Generated: 02/29/2024 09:34:53) Rev: 1