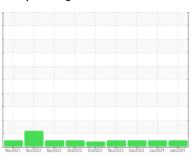


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **920082-205322**

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.

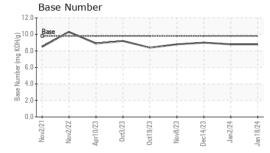
Fluid Condition

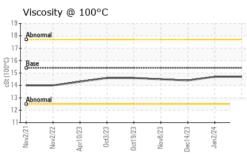
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Nov2021 Nov	2022 Apr2023 Oct2023	Oct2023 Nov2023 Dec2023 Jan20	24 Jan2024	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0093576	GFL0093558	GFL0093596
Sample Date		Client Info		18 Jan 2024	02 Jan 2024	14 Dec 2023
Machine Age	hrs	Client Info		9675	9570	9473
Oil Age	hrs	Client Info		456	351	254
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	NC	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 METALS	;	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	5	2	1
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	2
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	<1	3
Tin	ppm	ASTM D5185m	>15	<1	<1	0
	ppm	ASTM D5185m		0	<1	0
	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	3	2
Barium	ppm	ASTM D5185m	0	3	0	0
Molybdenum	ppm	ASTM D5185m	60	60	59	55
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	950	954	920
	ppm	ASTM D5185m	1070	1075	995	973
Phosphorus	ppm	ASTM D5185m	1150	997	1070	986
Zinc	ppm	ASTM D5185m	1270	1220	1277	1233
Sulfur	ppm	ASTM D5185m	2060	3508	3190	3093
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	4
Sodium	ppm	ASTM D5185m		<1	4	3
Potassium	ppm	ASTM D5185m	>20	3	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.4	0.3
	Abs/cm	*ASTM D7624	>20	6.6	6.2	5.6
	Abs/.1mm	*ASTM D7415	>30	18.8	18.4	18.1
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8	13.7	13.5
	mg KOH/g	ASTM D7414	9.8	8.8	8.8	9.0
Dasc Number (DIV)	my Norry	AUTIVI DE030	0.0	0.0	0.0	0.0



OIL ANALYSIS REPORT

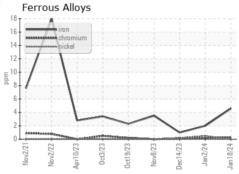


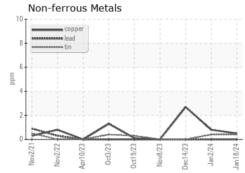


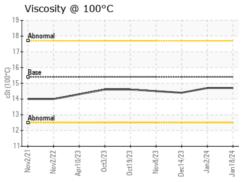
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

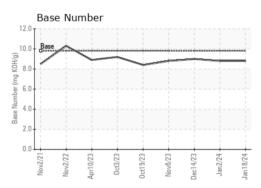
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	14.7	14.7	14.4	

GRAPHS













Certificate L2367

Laboratory Test Package : FLEET

Sample No. Lab Number Unique Number : 10843172

: GFL0093576 : 06066495

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 22 Jan 2024 : 22 Jan 2024 Diagnosed

Diagnostician : Wes Davis

GFL Environmental - 891 - Oklahoma City Hauling 1001 South Rockwell Oklahoma City, OK

US 73128 Contact: Andy Smith andrew.smith@gflenv.com T: (405)306-1651

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: GFL891 [WUSCAR] 06066495 (Generated: 01/22/2024 17:39:20) Rev: 1

Submitted By: Andy Smith