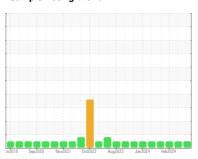


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



927076-260327

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

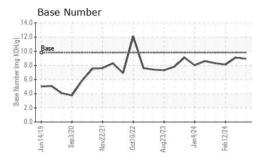
Fluid Condition

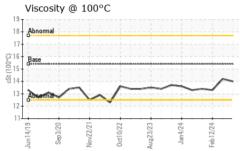
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

ぶAL) 1019 5mp2020 16m2021 Oct2022 Aug2023 Jan2024 Feb2024						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0111954	GFL0107964	GFL0107940
Sample Date		Client Info		11 Mar 2024	19 Feb 2024	12 Feb 2024
Machine Age	hrs	Client Info		8478	8337	8285
Oil Age	hrs	Client Info		0	0	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	>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	5	3	18
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	1	3
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	2	2	13
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	4	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	60	61
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	939	1002	1040
Calcium	ppm	ASTM D5185m	1070	1067	1082	1114
Phosphorus	ppm	ASTM D5185m	1150	996	1095	1104
Zinc	ppm	ASTM D5185m	1270	1214	1333	1346
Sulfur	ppm	ASTM D5185m	2060	3148	3294	3216
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	4
	ppm	ASTM D5185m ASTM D5185m	>25	4 <1	3	4 3
Sodium			>25			
Sodium	ppm	ASTM D5185m		<1	1	3
Sodium Potassium INFRA-RED	ppm	ASTM D5185m ASTM D5185m	>20	<1 2	1	3 <1
Sodium Potassium INFRA-RED Soot %	ppm	ASTM D5185m ASTM D5185m method	>20 limit/base	<1 2 current	1 1 history1	3 <1 history2
Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm	ASTM D5185m ASTM D5185m method *ASTM D7844	>20 limit/base	<1 2 current 0.2	1 1 history1 0.1	3 <1 history2 0.3
Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 limit/base >3 >20	<1 2 current 0.2 5.6	1 1 history1 0.1 4.7	3 <1 history2 0.3 7.3
Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 limit/base >3 >20 >30	<1 2 current 0.2 5.6 18.1	1 1 history1 0.1 4.7 17.6	3 <1 history2 0.3 7.3 19.7



OIL ANALYSIS REPORT

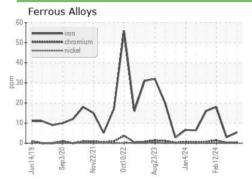


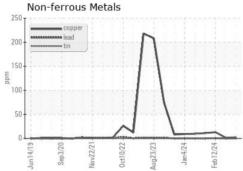


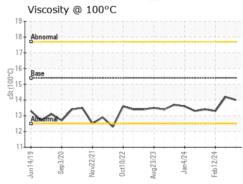
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

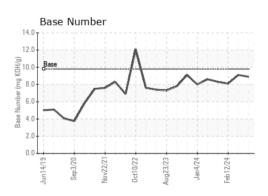
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.2	13.3

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number : 06116967

: GFL0111954

Unique Number : 10925800 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Mar 2024 **Tested** : 14 Mar 2024

Diagnosed : 14 Mar 2024 - Wes Davis

GFL Environmental - 892 - Pauls Valley Hauling

405 East Airport Industrial Road Pauls Valley, OK

US 73075 Contact: Tony Graham

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

tgraham2@wcamerica.com T:

* - 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: GFL892 [WUSCAR] 06116967 (Generated: 03/14/2024 14:41:23) Rev: 1

Contact/Location: Tony Graham - GFL892

F: