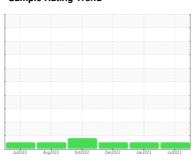


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 920058

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

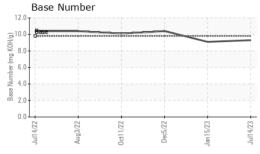
Fluid Condition

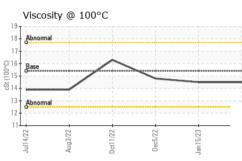
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)		Jul2022	Aug2022 Oct2022	Dec2022 Jan2023	Jul2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0072503	GFL0059834	GFL0059833
Sample Date		Client Info		14 Jul 2023	15 Jan 2023	05 Dec 2022
Machine Age	hrs	Client Info		7776	7268	0
Oil Age	hrs	Client Info		603	604	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	17	16	31
Chromium	ppm	ASTM D5185m	>4	<1	<1	1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m		3	<1	4
Lead	ppm	ASTM D5185m	>45	0	<1	2
Copper	ppm	ASTM D5185m		0	<1	2
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m	2 4	0	0	<1
Cadmium		ASTM D5185m		0	0	0
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	111	15	27
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	82	63	80
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	962	870	1076
Calcium	ppm	ASTM D5185m	1070	1642	1141	1431
Phosphorus	ppm	ASTM D5185m	1150	1126	967	1176
Zinc	ppm	ASTM D5185m	1270	1391	1141	1415
Sulfur	ppm	ASTM D5185m	2060	4222	2967	4051
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	5	3	6
Sodium	ppm	ASTM D5185m		1	<1	3
Potassium	ppm	ASTM D5185m	>20	<1	3	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.5	0.9
Nitration	Abs/cm	*ASTM D7624	>20	9.4	8.0	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.9	21.0	26.2
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.6	16.7	22.1
Base Number (BN)	mg KOH/g		9.8	9.3	9.1	10.4
= acc ramber (biv)	mg nong	.101111 DE000	5.0	0.0	0.1	10.1



OIL ANALYSIS REPORT

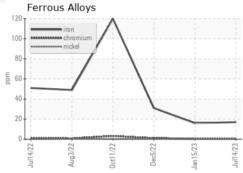


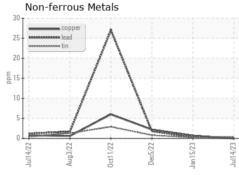


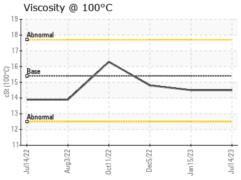
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

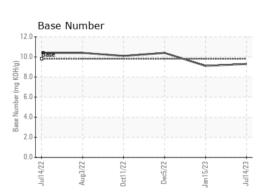
FLUID PROPE	=RIIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.5	14.5	14.8

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0072503 : 05918396 : 10590310

Received : 08 Aug 2023 Diagnosed : 09 Aug 2023 Diagnostician : Don Baldridge GFL Environmental - 921 - Janesville HC 304 West Sunny Lane

Janesville, WI US 53546 Contact: Edgar Gomez

edgar.gomez@gflenv.com T: (224)413-0168

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: GFL921 [WUSCAR] 05918396 (Generated: 08/09/2023 11:41:40) Rev: 1

Submitted By: LEONARD KOZLEUCHAR