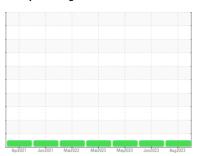


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 911012

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- LTR)

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.

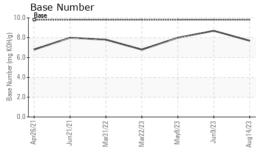
Fluid Condition

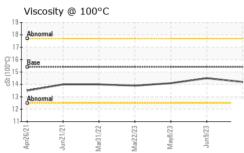
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

LIK)		Apr2021	Jun2021 Mar2022	Mar2023 May2023 Jun2023	Aug ² 023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0086571	GFL0067852	GFL0074329	
Sample Date		Client Info		14 Aug 2023	09 Jun 2023	08 May 2023	
Machine Age	hrs	Client Info		9056	8584	8303	
Oil Age	hrs	Client Info		9056	0	0	
Oil Changed		Client Info		Changed	Not Changd	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	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS method limit/base current history1 history2							
Iron	ppm	ASTM D5185m	>100	9	2	7	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	1	
Titanium	ppm	ASTM D5185m		0	0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	<1	<1	0	
Lead	ppm	ASTM D5185m	>40	1	0	<1	
Copper	ppm	ASTM D5185m	>330	2	0	1	
Tin	ppm	ASTM D5185m	>15	<1	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<1	5	5	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	62	63	64	
Manganese	ppm	ASTM D5185m	0	<1	0	<1	
Magnesium	ppm	ASTM D5185m	1010	1020	1023	1041	
Calcium	ppm	ASTM D5185m	1070	1083	1137	1162	
Phosphorus	ppm	ASTM D5185m	1150	1028	1133	1080	
Zinc	ppm	ASTM D5185m	1270	1261	1381	1336	
Sulfur	ppm	ASTM D5185m	2060	3206	4095	3472	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	3	4	
Sodium	ppm	ASTM D5185m		6	2	4	
Potassium	ppm	ASTM D5185m	>20	0	0	<1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.6	0.2	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	8.6	5.3	7.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	18.6	20.2	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	15.4	15.8	
Base Number (BN)	mg KOH/g	ASTM D2896		7.7	8.7	8.0	
= 300 · (214)	9		5.0		0	0.0	



OIL ANALYSIS REPORT



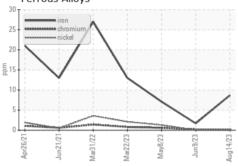


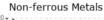
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

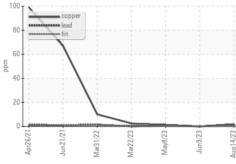
FLUID PROPE	RHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.5	14.1

GRAPHS

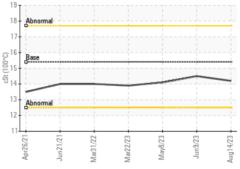
Ferrous Alloys











(mg KOH/g) 0.0

Base Number





Report Id: GFL654 [WUSCAR] 05931908 (Generated: 08/24/2023 16:45:04) Rev: 1

Laboratory Sample No. Lab Number Test Package : FLEET

Unique Number : 10617179

: GFL0086571 : 05931908

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 Aug 2023 Diagnosed : 24 Aug 2023

Diagnostician : Wes Davis

GFL Environmental - 654 - Richmond Hauling

11800 Lewis Road Chester, VA US 23831

Contact: Steven Palmore

spalmore@gflenv.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)

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

F: