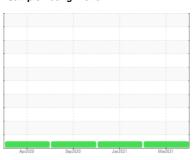


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **926017-9022**

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

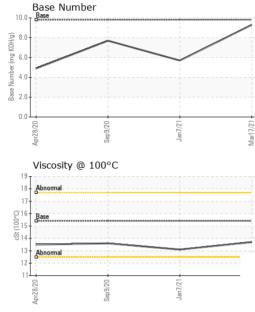
Fluid Condition

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

GAL)		Apr202	0 Sep2020	Jan 2021 M	ar2021	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0022608	GFL0014091	GFL0010475
Sample Date		Client Info		17 Mar 2021	07 Jan 2021	09 Sep 2020
Machine Age	hrs	Client Info		14924	14444	256801
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	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	5	34	17
Chromium	ppm	ASTM D5185m	>4	<1	2	1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		2	6	14
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>25	0	7	4
Lead	ppm	ASTM D5185m	>45	<1	5	3
Copper	ppm	ASTM D5185m	>85	<1	1	2
Tin	ppm	ASTM D5185m	>4	<1	0	0
Antimony	ppm	ASTM D5185m		0	7	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	19	15	10
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	54	49
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	811	933	968
Calcium	ppm	ASTM D5185m	1070	1039	1162	1294
Phosphorus	ppm	ASTM D5185m	1150	954	1033	982
Zinc	ppm	ASTM D5185m	1270	1084	1177	1233
Sulfur	ppm	ASTM D5185m	2060	2580	2438	2519
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	2	14	7
Sodium	ppm	ASTM D5185m		2	6	7
Potassium	ppm	ASTM D5185m	>20	1	4	12
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	1.2	0.5
Nitration	Abs/cm	*ASTM D7624	>20	5.2	10.7	10
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	30.9	22.5
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	27.8	17.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.3	5.7	7.7



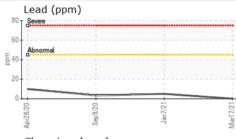
OIL ANALYSIS REPORT



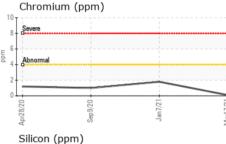
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	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
ELLIID DRODE	DTIES	method	limit/hasa	current	history1	history2

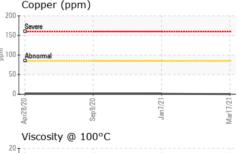
	_1111120					
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.1	13.6

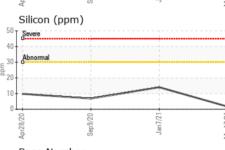
١)		
/20	/21	/21
eb 3	an/	Mar17/21
69	,	S
n (ppm)		
	Sep 9720 -	Sep 9/20 -

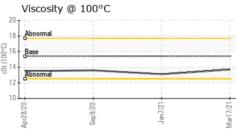


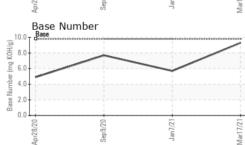
50 Severe	ım (ppm)		
40			
Abnormal 20			
20			
10		<u></u>	
0			
Apr28/20	Sep9/20	Jan 7/2	Mar17/21
Apri	S	- P	Mai
Copper	(ppm)		













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 9434183 Test Package : MOB1+

: GFL0022608 : 05210290

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 22 Mar 2021 : 24 Mar 2021 Diagnostician : Wes Davis

GFL Environmental - 663 - Lake Ariel (Scranton Hauling)

17 Industrial Park Rd Lake Ariel, PA US 18436

Contact: Eric Merone emerone@countyrecycling.net

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)

T:

F: