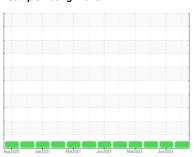


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **528006**

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

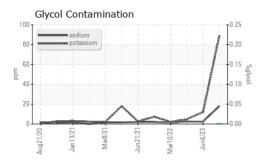
Fluid Condition

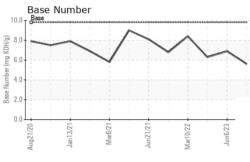
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

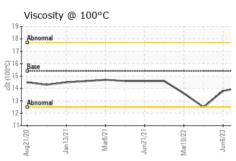
Aug2020 Jun2021 Mar2021 Jun2021 Mar2022 Jun2023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0086570	GFL0067958	GFL0045485
Sample Date		Client Info		15 Aug 2023	06 Jun 2023	28 Feb 2023
Machine Age	hrs	Client Info		13308	12970	12343
Oil Age	hrs	Client Info		12343	0	0
Oil Changed		Client Info		Changed	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
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	22	12	24
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m		4	1	4
Lead	ppm	ASTM D5185m	>45	0	0	<1
Copper	ppm	ASTM D5185m	>85	9	5	27
Tin	ppm	ASTM D5185m	>4	<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	nnm	ASTM D5185m	0	2	8	11
Barium	ppm	ASTM D5185m	0	0	0	3
		ASTM D5185m	60	67	59	41
Molybdenum	ppm	ASTM D5185m	0	<1	<1	<1
Manganese	ppm			987	1001	844
Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m	1010 1070	1146	1189	1169
	ppm					
Phosphorus	ppm	ASTM D5185m	1150	1005	1070	894
Zinc	ppm	ASTM D5185m	1270	1217	1446	1078
Sulfur	ppm	ASTM D5185m	2060	2961	4073	2666
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	9	7	12
Sodium	ppm	ASTM D5185m		18	2	2
Potassium	ppm	ASTM D5185m	>20	89	12	5
Glycol	%	*ASTM D2982		0.0	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	10.7	8.7	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1	21.0	22.6
FLUID DEGRA	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.0	18.4	18.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.6	6.9	6.3



OIL ANALYSIS REPORT



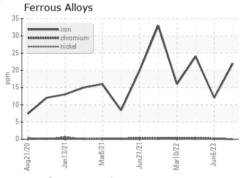


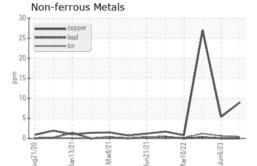


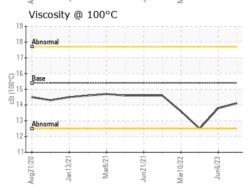
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

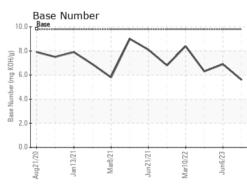
FLUID PROP	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	13.8	12.5

GRAPHS











Laboratory Sample No. Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 05931907

: GFL0086570 Received : 10617178

: 23 Aug 2023 Diagnosed Diagnostician : Wes Davis Test Package : FLEET (Additional Tests: Glycol)

: 24 Aug 2023 To discuss this sample report, contact Customer Service at 1-800-237-1369.

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)

F: