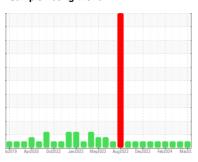


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



727089-361674

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.

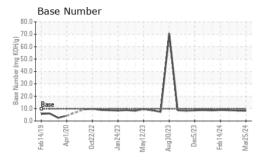
Fluid Condition

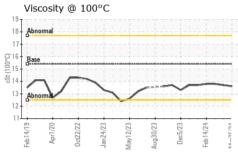
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

<i>⊶</i> ∧ - /		b2019 Apr20	20 Oct2022 Jan2023	62019 Apr20120 Oct2022 Jun2023 May2023 Aur2023 Dec2023 Feb2024 Mar201						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2				
Sample Number		Client Info		GFL0105114	GFL0105118	GFL0105213				
Sample Date		Client Info		25 Mar 2024	19 Mar 2024	26 Feb 2024				
Machine Age	hrs	Client Info		6750	6720	6584				
Oil Age	hrs	Client Info		600	150	150				
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				
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	20	18	11				
Chromium	ppm	ASTM D5185m	>20	2	1	<1				
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1				
Titanium	ppm	ASTM D5185m		<1	<1	0				
Silver	ppm	ASTM D5185m	>3	0	0	0				
Aluminum	ppm	ASTM D5185m	>20	2	3	2				
Lead	ppm	ASTM D5185m	>40	<1	<1	<1				
Copper	ppm	ASTM D5185m	>330	2	1	<1				
Tin	ppm	ASTM D5185m	>15	1	<1	<1				
Vanadium	ppm	ASTM D5185m		<1	0	<1				
Cadmium	ppm	ASTM D5185m		<1	0	0				
ADDITIVES		method	limit/base	current	history1	history2				
Boron	ppm	ASTM D5185m	0	<1	0	1				
Barium	ppm	ASTM D5185m	0	<1	0	0				
Molybdenum	ppm	ASTM D5185m	60	60	58	60				
Manganese	ppm	ASTM D5185m	0	<1	<1	<1				
Magnesium	ppm	ASTM D5185m	1010	908	924	1150				
Calcium	ppm	ASTM D5185m	1070	1083	1087	1247				
Phosphorus	ppm	ASTM D5185m	1150	1094	1075	1191				
Zinc	ppm	ASTM D5185m	1270	1193	1246	1534				
Sulfur	ppm	ASTM D5185m	2060	3095	3087	3723				
CONTAMINAN	TS	method	limit/base	current	history1	history2				
Silicon	ppm	ASTM D5185m	>25	6	5	3				
Sodium	ppm	ASTM D5185m		<1	3	2				
Potassium	ppm	ASTM D5185m	>20	2	<1	<1				
INFRA-RED		method	limit/base	current	history1	history2				
Soot %	%	*ASTM D7844	>3	0.5	0.5	0.3				
Nitration	Abs/cm	*ASTM D7624	>20	8.1	7.7	6.6				
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	18.8	18.2				
FLUID DEGRA	OITAC	method	limit/base	current	history1	history2				
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	14.4	13.8				
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	8.4	8.7				



OIL ANALYSIS REPORT

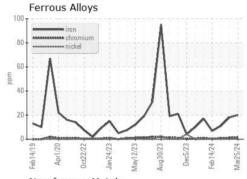


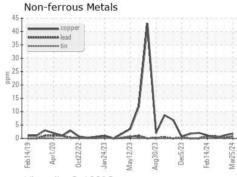


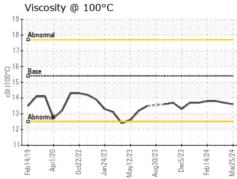
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

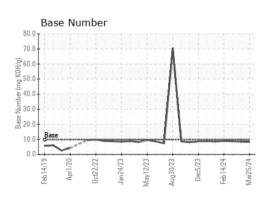
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.7	13.8

GRAPHS













Laboratory Sample No.

Test Package : FLEET

: GFL0105114 Lab Number : 06130392 Unique Number: 10949857

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 27 Mar 2024

Tested : 28 Mar 2024 Diagnosed : 28 Mar 2024 - Wes Davis

GFL Environmental - 821 - Ozarks Hauling

33924 Olath Drive Lebanon, MO US 65536

T: (417)664-0010

Contact: Landen Johnson landen.johnson@gflenv.com

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)