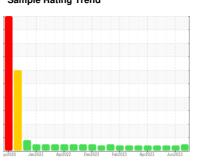


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
2870
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (7 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

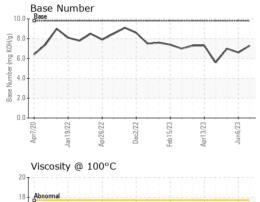
Fluid Condition

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

AL)		pr2020 Ja	n2022 Apr2022 Di	ec2022 Feb2023 Apr2023	Jun2023	
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0083191	GFL0082843	GFL0080857
Sample Date		Client Info		27 Jun 2023	06 Jun 2023	16 May 2023
Machine Age	hrs	Client Info		7630	7487	7318
Oil Age	hrs	Client Info		143	1122	953
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	ATTENTION	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>165	4	12	10
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	<1	3
Lead	ppm	ASTM D5185m	>150	0	<1	<1
Copper	ppm	ASTM D5185m	>90	1	2	2
Tin	ppm	ASTM D5185m	>5	0	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	21	13	18
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	61	63
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	793	780	794
Calcium	ppm	ASTM D5185m	1070	1097	1194	1235
Phosphorus	ppm	ASTM D5185m	1150	933	947	973
Zinc	ppm	ASTM D5185m	1270	1164	1191	1188
Sulfur	ppm	ASTM D5185m	2060	3504	3372	3238
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>35	2	5	5
Sodium	ppm	ASTM D5185m		<1	2	2
Potassium	ppm	ASTM D5185m	>20	4	8	5
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>7.5	0.2	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	5.8	8.8	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	19.5	18.1
FLUID DEGRA	DATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.4	14.7	12.9
Base Number (BN)	mg KOH/g	ASTM D2896		7.3	6.6	7.0
	39					



OIL ANALYSIS REPORT

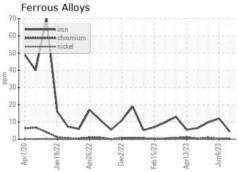


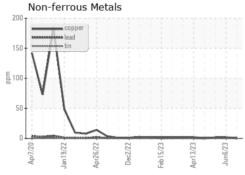
VISUAL		method			history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	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

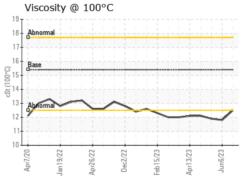
Abnormal						П
8 Abnormal						
6 Base						
Abaromal						
2-						_
Apr7/20	- 22	- 22	22	23	- 53	22
	Jan19/	Apr26/	2	22	67	G

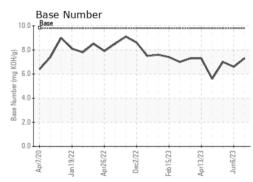
FLUID PROPERTIES Visc @ 100°C cSt 12.5 <u>11.8</u> <u></u> 11.9 ASTM D445 15.4

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

Unique Number : 10536945

: GFL0083191 : 05886462

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

: 29 Jun 2023 : 02 Jul 2023 Diagnostician : Wes Davis

GFL Environmental - 010 - Stockbridge

1280 Rum Creek Parkway Stockbridge, GA US 30281

Contact: JOSHUA TINKER joshuatinker@gflenv.com

T:

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: GFL010 [WUSCAR] 05886462 (Generated: 07/02/2023 11:22:48) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

F: