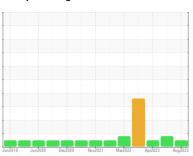


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



927076-260327

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

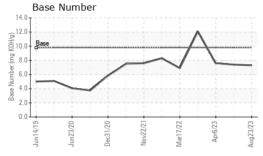
Fluid Condition

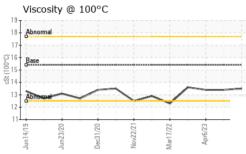
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

IAL)		Jun2019	Jun2020 Dec2020	Nov2021 Mar2022 Apr2023	Aug2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0080390	GFL0080397	GFL0066739
Sample Date		Client Info		23 Aug 2023	05 Jun 2023	06 Apr 2023
Machine Age	hrs	Client Info		7122	6523	6098
Oil Age	hrs	Client Info		600	600	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	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
•	C		lineit/lenen			
WEAR METAL		method	limit/base		history1	history2
ron	ppm	ASTM D5185m	>100	32	31	16
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		2	14	14
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	3	3	0
_ead	ppm	ASTM D5185m	>40	<1	1	<1
Copper	ppm	ASTM D5185m	>330	208	<u>^</u> 218	12
Γin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	38	70
Barium	ppm	ASTM D5185m	0	2	0	<1
Molybdenum	ppm	ASTM D5185m	60	63	25	24
Manganese	ppm	ASTM D5185m	0	1	3	2
Magnesium	ppm	ASTM D5185m	1010	957	555	494
Calcium	ppm	ASTM D5185m	1070	1237	1667	1461
Phosphorus	ppm	ASTM D5185m	1150	1079	935	939
Zinc	ppm	ASTM D5185m	1270	1294	1226	1104
Sulfur	ppm	ASTM D5185m	2060	3006	3582	2981
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	15	14
Sodium	ppm	ASTM D5185m		3	4	3
Potassium	ppm	ASTM D5185m	>20	2	2	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.4	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.6	8.6	5.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	21.0	15.9
FLUID DEGRA	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	17.1	13.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.3	7.4	7.6
(=1.)	99			_		



OIL ANALYSIS REPORT

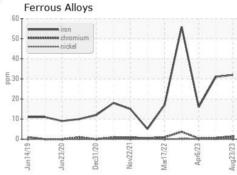


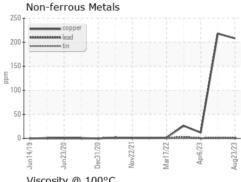


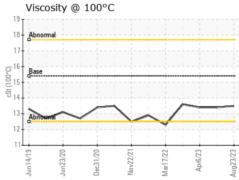
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

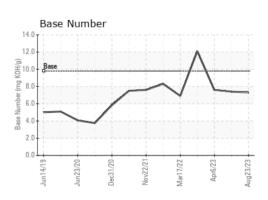
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.4	13.4

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: GFL0080390 : 05936586 : 10621857

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

: 28 Aug 2023 : 29 Aug 2023 Diagnostician : Wes Davis

GFL Environmental - 892 - Pauls Valley Hauling 405 East Airport Industrial Road Pauls Valley, OK

US 73075 Contact: Tony Graham

tgraham2@wcamerica.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)

F: