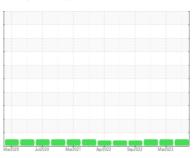


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **829033-1084**

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.

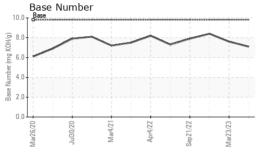
Fluid Condition

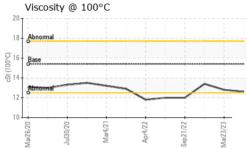
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Mw2020 Jul2020 Mw2021 Apr2022 Sep2022 Mw2023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0079787	GFL0059572	GFL0055079
Sample Date		Client Info		26 Jun 2023	23 Mar 2023	21 Sep 2022
Machine Age	hrs	Client Info		9443	107541	7591
Oil Age	hrs	Client Info		605	55245	7591
Oil Changed		Client Info		Changed	N/A	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	11	12	42
Chromium	ppm	ASTM D5185m	>4	<1	<1	3
Nickel	ppm	ASTM D5185m	>2	0	0	2
Titanium	ppm	ASTM D5185m	_	4	10	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	0	5
Lead	ppm	ASTM D5185m	>45	0	1	0
Copper	ppm	ASTM D5185m	>85	0	<1	1
Tin		ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m	24	0	<1	<1
Cadmium		ASTM D5185m		0	0	0
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	13	19	4
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	60	58	51	62
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	944	798	901
Calcium	ppm	ASTM D5185m	1070	1073	1109	1086
Phosphorus	ppm	ASTM D5185m	1150	980	930	1001
Zinc	ppm	ASTM D5185m	1270	1242	1145	1268
Sulfur	ppm	ASTM D5185m	2060	3344	2630	3437
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	4	6	9
Sodium	ppm	ASTM D5185m		4	4	6
Potassium	ppm	ASTM D5185m	>20	0	2	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.3	1.2
Nitration	Abs/cm	*ASTM D7624	>20	8.5	8.4	13.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	19.4	24.4
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	14.8	23.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.1	7.6	8.4
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OIL ANALYSIS REPORT

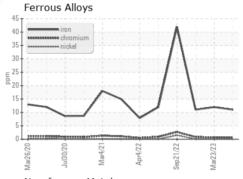


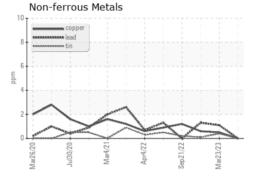


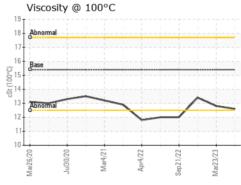
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

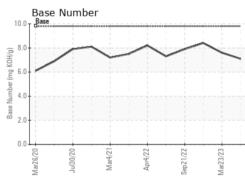
FLUID PROPE	ERITES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	12.6	12.8	13.4

GRAPHS











Certificate L2367

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

: GFL0079787 : 05896022 : 10551832

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Jul 2023

Diagnosed : 13 Jul 2023 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: