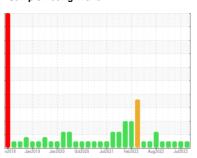


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



10884 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (48 QTS)

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.

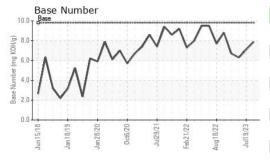
Fluid Condition

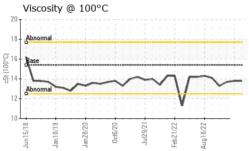
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

2 S) n.2018 Jan2019 Jan2020 Oct2020 Ju2021 Feb2022 Aug/2022 Ju2023							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0094731	GFL0089339	GFL0056709	
Sample Date		Client Info		11 Oct 2023	19 Jul 2023	24 Apr 2023	
Machine Age	hrs	Client Info		16665	16104	15535	
Oil Age	hrs	Client Info		16665	0	550	
Oil Changed		Client Info		N/A	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	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS method limit/base current history1 history2							
Iron	ppm	ASTM D5185m	>100	11	16	17	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	0	0	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m	>3	<1	0	0	
Aluminum	ppm	ASTM D5185m	>20	5	5	4	
Lead	ppm	ASTM D5185m	>40	<1	0	0	
Copper	ppm	ASTM D5185m	>330	1	0	<1	
Tin	ppm	ASTM D5185m	>15	<1	0	0	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	8	2	5	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	57	64	58	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	870	1006	919	
Calcium	ppm	ASTM D5185m	1070	1086	1140	1083	
Phosphorus	ppm	ASTM D5185m	1150	1001	1078	999	
Zinc	ppm	ASTM D5185m	1270	1226	1344	1246	
Sulfur	ppm	ASTM D5185m	2060	2838	3688	3497	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	4	3	
Sodium	ppm	ASTM D5185m		21	18	15	
Potassium	ppm	ASTM D5185m	>20	5	0	<1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.4	0.4	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	9.4	10.1	9.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	20.7	19.7	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	18.5	19.0	
Base Number (BN)	mg KOH/g	ASTM D2896		7.9	7.1	6.3	
2400 Hambor (BN)	mg nong	. 10 1111 D2000	5.0		7	0.0	



OIL ANALYSIS REPORT

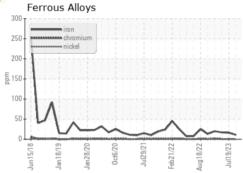


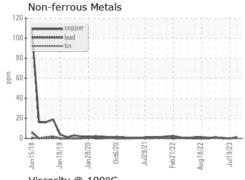


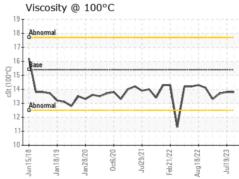
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

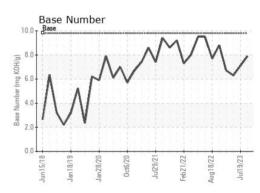
FLUID PROPE	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.8	13.7

GRAPHS













Certificate L2367

Laboratory Sample No. Test Package : FLEET

Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0094731 : 05978078

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

: 10695373

Received : 13 Oct 2023 Diagnosed : 13 Oct 2023 Diagnostician : Wes Davis

GFL Environmental - 001 - Raleigh(CNG) 3741 Conquest Drive

Garner, NC US 27529 Contact: Craig Johnson

craig.johnson@gflenv.com T: (919)662-7100

* - 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: GFL001 [WUSCAR] 05978078 (Generated: 10/19/2023 08:02:10) Rev: 1

Submitted By: Craig Johnson

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