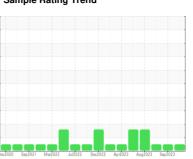


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **827021-1033**

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- LTR)

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

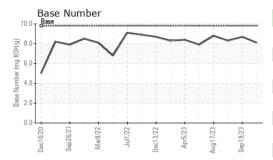
Fluid Condition

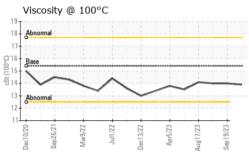
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

LIN)		Jec2020 Sep.	2021 Mar2022 Jul2022	Dec2022 Apr2023 Aug2023	Sep 2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090802	GFL0085131	GFL0090774
Sample Date		Client Info		16 Oct 2023	19 Sep 2023	23 Aug 2023
Machine Age	hrs	Client Info		17678	17515	17354
Oil Age	hrs	Client Info		182326	0	0
Oil Changed		Client Info		N/A	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	6	4	4
Chromium	ppm	ASTM D5185m	>4	0	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	4	<1
Lead	ppm	ASTM D5185m	>45	<1	0	<1
Copper	ppm	ASTM D5185m	>85	5	3	5
Tin	ppm	ASTM D5185m	>4	0	<1	<1
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	5	6	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	61	57
Manganese	ppm	ASTM D5185m	0	0	<1	0
Magnesium	ppm	ASTM D5185m	1010	991	986	982
Calcium	ppm	ASTM D5185m	1070	1067	1077	1117
Phosphorus	ppm	ASTM D5185m	1150	1036	1059	1001
Zinc	ppm	ASTM D5185m	1270	1297	1293	1266
Sulfur	ppm	ASTM D5185m	2060	3114	3211	3659
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	17	16	29
Sodium	ppm	ASTM D5185m		4	3	2
Potassium	ppm	ASTM D5185m	>20	4	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.2	6.6	6.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	18.7	18.5
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	14.7	14.4
Base Number (BN)	mg KOH/g		9.8	8.1	8.7	8.3
()	0 - 3					



OIL ANALYSIS REPORT

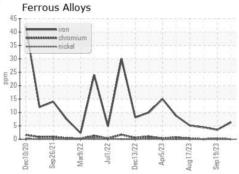


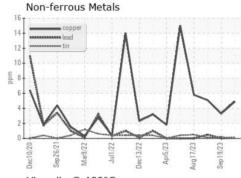


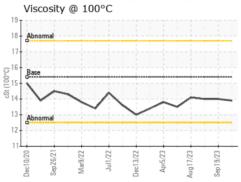
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

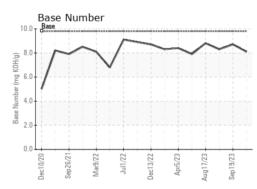
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.0	14.0	

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10709808 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0090802 : 05987146

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

Received : 23 Oct 2023 Diagnosed : 24 Oct 2023 Diagnostician : Wes Davis

GFL Environmental - 659 - Mechanicsville

8280 RICHFOOD RD Mechanicsville, VA US 23116

Contact: ANGELA BARON abaron@gflenv.com T: (804)489-3066

* - 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: GFL659 [WUSCAR] 05987146 (Generated: 10/26/2023 18:33:32) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

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