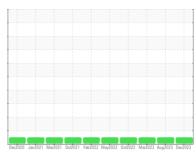


OIL ANALYSIS REPORT

Sample Rating Trend







920003-9919

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

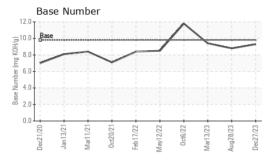
Fluid Condition

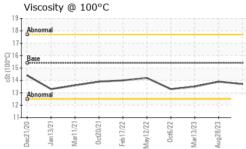
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

LIH) Doc2020 Jan2021 Mar2021 Occ2021 Feb 2022 Mar2022 Occ2022 Mar2023 Doc2023 Doc2023 Doc2023							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0077767	GFL0065073	GFL0065093	
Sample Date		Client Info		27 Dec 2023	28 Aug 2023	13 Mar 2023	
Machine Age	mls	Client Info		171843	171563	168696	
Oil Age	mls	Client Info		0	24694	0	
Oil Changed		Client Info		Not Changd	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	6	32	16	
Chromium	ppm	ASTM D5185m	>20	0	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	<1	
Titanium	ppm	ASTM D5185m		0	<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	<1	
Aluminum	ppm	ASTM D5185m	>20	<1	4	4	
Lead	ppm	ASTM D5185m	>40	0	0	<1	
Copper	ppm	ASTM D5185m	>330	<1	5	3	
Tin	ppm	ASTM D5185m	>15	0	0	<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	8	0	10	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	59	61	57	
Manganese	ppm	ASTM D5185m	0	0	1	<1	
Magnesium	ppm	ASTM D5185m	1010	1005	912	841	
Calcium	ppm	ASTM D5185m	1070	1126	1107	1116	
Phosphorus	ppm	ASTM D5185m	1150	1071	1004	948	
Zinc	ppm	ASTM D5185m	1270	1298	1224	1150	
Sulfur	ppm	ASTM D5185m	2060	3322	3543	3474	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	7	8	
Sodium	ppm	ASTM D5185m		1	7	5	
Potassium	ppm	ASTM D5185m	>20	<1	5	5	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.1	0.5	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	4.7	8.0	6.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.2	19.4	18.4	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.7	15.1	14.5	
Base Number (BN)	mg KOH/g	ASTM D2896		9.3	8.8	9.4	
- (')	3						



OIL ANALYSIS REPORT

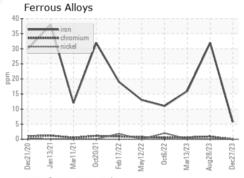


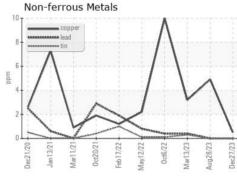


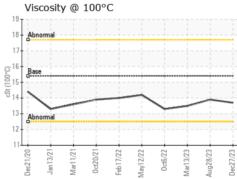
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

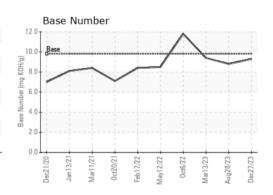
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.9	13.5

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

: GFL0077767 : 06049487 Unique Number : 10810095 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 02 Jan 2024 : 04 Jan 2024 Diagnosed

Diagnostician : Wes Davis

GFL Environmental - 650 - West Point Hauling 7825 Parham Landing Road

West Point, VA US 23181

Contact: Jason Smith jasonsmith@gflenv.com

* - 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: