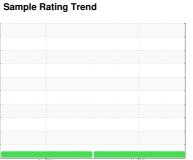


OIL ANALYSIS REPORT

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Machine Id
212020
Component
Diesel Engine
Fluid

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

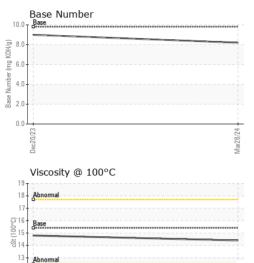
Fluid Condition

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

N SHP 15W40 (GAL)		Dec2023	Mar2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117655	GFL0105845	
Sample Date		Client Info		28 Mar 2024	20 Dec 2023	
Machine Age	hrs	Client Info		5858	5084	
Dil Age	hrs	Client Info		5084	5084	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
uel		WC Method	>5	<1.0	<1.0	
Vater		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>80	6	0	
Chromium	ppm	ASTM D5185m	>5	<1	0	
Nickel	ppm	ASTM D5185m	>2	0	<1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>30	2	<1	
ead	ppm	ASTM D5185m	>30	0	0	
Copper	ppm	ASTM D5185m	>150	0	<1	
- Tin	ppm	ASTM D5185m	>5	0	0	
/anadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	4	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	57	59	
Manganese	ppm	ASTM D5185m	0	<1	<1	
/lagnesium	ppm	ASTM D5185m	1010	925	954	
Calcium	ppm	ASTM D5185m	1070	1018	1041	
Phosphorus	ppm	ASTM D5185m	1150	1004	1131	
Zinc	ppm	ASTM D5185m	1270	1222	1289	
Sulfur	ppm	ASTM D5185m	2060	3359	3258	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	3	5	
Sodium	ppm	ASTM D5185m		10	2	
Potassium	ppm	ASTM D5185m	>20	0	<1	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0	
Nitration	Abs/cm	*ASTM D7624	>20	7.2	4.2	
Sulfation	Alan / duama	*ASTM D7415	>30	18.8	17.2	
Janation	Abs/.1mm	ASTNI D7413	200	10.0		
FLUID DEGRA			limit/base	current	history1	history2
						history2

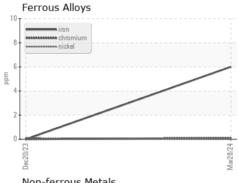


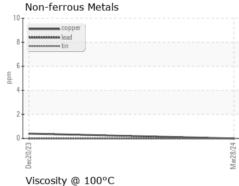
OIL ANALYSIS REPORT

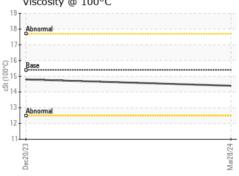


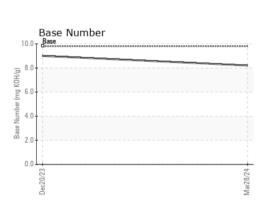
NONE	NONE	NONE	
NONE			
NONE	NONE	NONE	
NORML	NORML	NORML	
NORML	NORML	NORML	
>0.2	NEG	NEG	
	NEG	NEG	
	NONE NONE NONE NORML	NONE NONE NONE NONE NONE NONE NONE NONE NORML NORML NORML NORML >0.2 NEG	NONE NONE NONE NONE NONE NONE NONE NONE

FLUID PROP	EKIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	14.4	14.8	











Certificate L2367

Laboratory Sample No.

: GFL0117655 Lab Number : 06134438 Unique Number : 10953903 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Apr 2024 **Tested**

: 02 Apr 2024 Diagnosed : 02 Apr 2024 - Wes Davis

GFL Environmental - 415 - Michigan East 6200 Elmridge

Sterling Heights, MI US 48313 Contact: Frank Wolak fwolak@gflenv.com T: (586)825-9514

* - 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)