

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id
425066
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

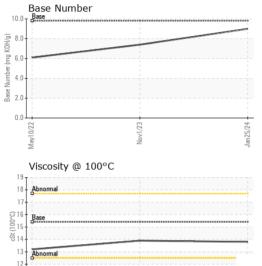
Fluid Condition

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

			y2022	Nov2023 Jan20			
SAMPLE INFO	RMATION	method				history2	
Sample Number		Client Info		GFL0078642	GFL0078603	GFL0052027	
Sample Date		Client Info		25 Jan 2024	01 Nov 2023	10 May 2022	
Machine Age	hrs	Client Info		22711	22565	19624	
Oil Age	hrs	Client Info		146	0	600	
Oil Changed		Client Info		Changed	Not Changd	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINA	ATION	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR META	ALS	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>120	3	2	5	
Chromium	ppm	ASTM D5185m	>20	<1	0	<1	
Nickel	ppm	ASTM D5185m	>5	0	0	<1	
Titanium		ASTM D5185m		0	0	0	
Silver	ppm		>2			0	
	ppm	ASTM D5185m		0	0		
Aluminum	ppm	ASTM D5185m	>20	3	2	2	
Lead	ppm	ASTM D5185m	>40	0	0	<1	
Copper	ppm		>330	2	0	1	
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	29	4	16	
Barium	ppm	ASTM D5185m	0	2	0	0	
Molybdenum	ppm	ASTM D5185m	60	69	61	65	
Manganese	ppm	ASTM D5185m	0	0	0	<1	
Magnesium	ppm	ASTM D5185m	1010	988	911	878	
Calcium	ppm	ASTM D5185m	1070	1120	1059	1222	
Phosphorus	ppm	ASTM D5185m	1150	1094	1002	924	
Zinc .	ppm	ASTM D5185m	1270	1235	1224	1139	
Sulfur	ppm	ASTM D5185m	2060	3404	2983	2501	
CONTAMINA	ANTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	7	3	4	
Sodium	ppm	ASTM D5185m		0	3	2	
Potassium	ppm	ASTM D5185m	>20	1	0	0	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.1	0.2	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	5.4	8.7	8.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.1	18.2	20.6	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2	15.1	16.2	
Base Number (BN		ASTM D7414			7.4		
Dase Mulliber (BIV	ilig NOn/g	49 LINI D5030	3.0	9.0	7.4	6.1	



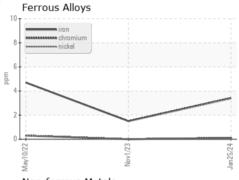
OIL ANALYSIS REPORT

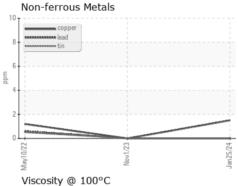


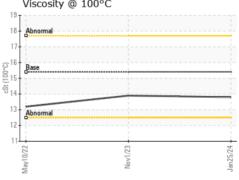
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

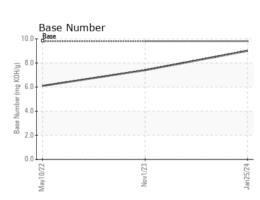
L LLOID PROPI		method			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.9	13.2

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10861043 Test Package : FLEET

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

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

: GFL0078642 : 06078952

Recieved Diagnosed

: 02 Feb 2024 : 05 Feb 2024 Diagnostician : Wes Davis

7580 PHILIPS HWY Jacksonville, FL US 32256 Contact: Chris Smith

GFL Environmental - 152 - Jacksonville

chris.smith@gflenv.com T: (904)252-0013

* - 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)