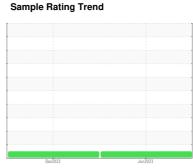


OIL ANALYSIS REPORT

→ Sa







Machine Id 927052

Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

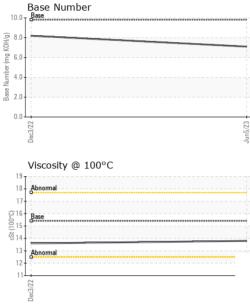
Fluid Condition

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

GAL)			Dec2022	Jun ² 023		
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0084553	GFL0058703	
Sample Date		Client Info		05 Jun 2023	03 Dec 2022	
Machine Age	mls	Client Info		15012	13782	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		N/A	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>110	23	18	
Chromium	ppm	ASTM D5185m	>4	1	<1	
Nickel	ppm	ASTM D5185m	>2	<1	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>2	<1	0	
Aluminum	ppm	ASTM D5185m	>25	7	<1	
Lead	ppm	ASTM D5185m	>45	6	<1	
Copper	ppm	ASTM D5185m	>85	3	<1	
Tin	ppm	ASTM D5185m	>4	2	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	5	93	
Barium	ppm	ASTM D5185m	0	0	1	
Molybdenum	ppm	ASTM D5185m	60	69	64	
Manganese	ppm	ASTM D5185m	0	2	<1	
Magnesium	ppm	ASTM D5185m	1010	1110	972	
Calcium	ppm	ASTM D5185m	1070	1212	1098	
Phosphorus	ppm	ASTM D5185m	1150	1102	1048	
Zinc	ppm	ASTM D5185m	1270	1408	1261	
Sulfur	ppm	ASTM D5185m	2060	3569	3906	
CONTAMINAN	ITS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>30	5	5	
Sodium	ppm	ASTM D5185m		6	5	
Potassium	ppm	ASTM D5185m	>20	5	4	
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	0.4	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	10.0	9.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	20.4	
FLUID DEGRAI	DATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.2	17.1	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.1	8.2	



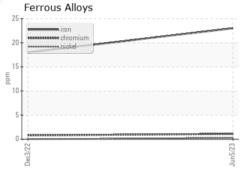
OIL ANALYSIS REPORT

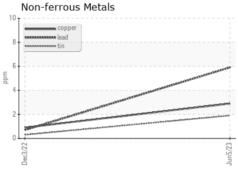


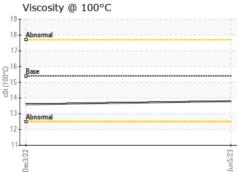
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
	DTIEO	ام مالم میں	line it /le e e e		lata a m a d	history O

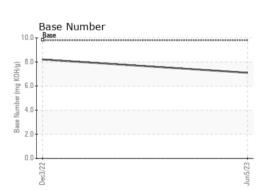
L LOID PROPE	ERIIES	memod			flistory i	filstory 2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.6	

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number

: GFL0084553 : 05885444 Unique Number : 10535927 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Jun 2023 Diagnosed : 30 Jun 2023 Diagnostician : Wes Davis

GFL Environmental - 918 - Hartland HC 630 E Industrial Drive

Hartland, WI US 53029 Contact: David McCall david.mccall@gflenv.com

T: (262)369-3069

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

* - 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)