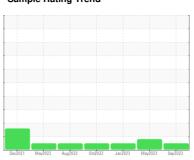


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



724010-515

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Sample)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

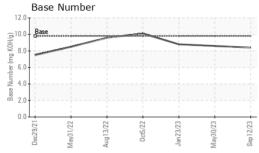
Fluid Condition

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

GAL) Opedag 1 Manylog 2 August 2 Opedag 2 January 3 Manylog 2 Sangar 3 Manylog 3 Sangar 3 Sa						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0062247	GFL0062223	GFL0062215
Sample Date		Client Info		12 Sep 2023	30 May 2023	23 Jan 2023
Machine Age	hrs	Client Info		36888	36484	36075
Oil Age	hrs	Client Info		404	409	377
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>2.0	<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	>100	96	<u> </u>	63
Chromium	ppm	ASTM D5185m	>20	2	2	1
Nickel	ppm	ASTM D5185m	>4	3	2	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	2	1
Lead	ppm	ASTM D5185m	>40	<1	2	1
Copper	ppm	ASTM D5185m	>330	2	2	1
Tin	ppm	ASTM D5185m	>15	<1	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	12	8	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	71	68	66
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1010	916	972	906
Calcium	ppm	ASTM D5185m	1070	1195	1150	1117
Phosphorus	ppm	ASTM D5185m	1150	1041	1037	1005
Zinc	ppm	ASTM D5185m	1270	1264	1316	1214
Sulfur	ppm	ASTM D5185m	2060	3103	3477	2840
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	7	4
Sodium	ppm	ASTM D5185m		<1	2	0
Potassium	ppm	ASTM D5185m	>20	<1	0	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	8.0	1	0.7
Nitration	Abs/cm	*ASTM D7624	>20	7.0	8.2	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	20.5	18.9
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	15.4	14.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	8.6	8.8



OIL ANALYSIS REPORT



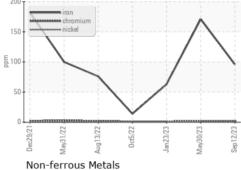
	Dec	Мау	Aug	ŏ	Jan	Мау	Sen
	Viscos	ity @ 1	L00°C				
19 - 18 -	Abnormal						
17-							
() 16- () 15- 14-	Base		*****				
₹ 14 - 13 -	Abnorma						
12	Abiloilla						
11-	Jec29/21 -	1/22 -	3/22 -	Oct5/22	3/23 -	May30/23 -	_
	Dec	May31/	Aug13/	30	Jan23/	May	

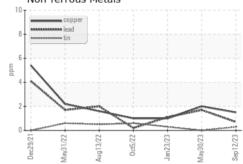
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

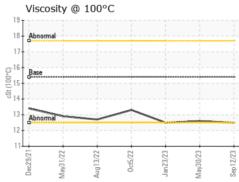
FLUID PROPI	ERIIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.5	12.6	12.5

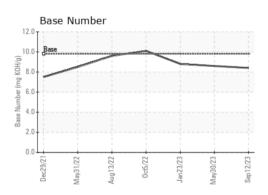
GRAPHS

Ferrous Alloys













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10654997 Test Package : FLEET

: GFL0062247 : 05953784

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Sep 2023 Diagnosed : 20 Sep 2023

Diagnostician : Don Baldridge

GFL Environmental - 626 - Cadillac Hauling

1501 Ron Wilson St Cadillac, MI US 49601

Contact: GARY BREWER

gbrewerjr@gflenv.com T:

* - 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)

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