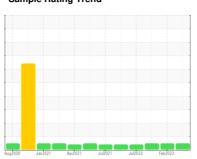


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 1069 Component Diesel Engine

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

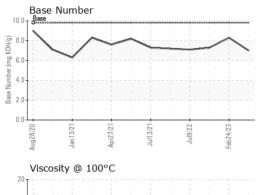
Fluid Condition

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

GAL)		Aug2020	Jan2021 Apr2021	Jul2021 Jul2022 Fel	2023	
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number Sample Date		Client Info		GFL0079146 06 Jul 2023	GFL0062864 24 Feb 2023	GFL0062837 18 Jan 2023
Machine Age	hrs	Client Info		9863	9386	9233
Oil Age	hrs	Client Info		8571	8247	1139
Oil Changed	1115	Client Info		N/A	N/A	N/A
Sample Status		Ciletit IIIIO		NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0	0.4	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>110	9	4	15
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		4	15	18
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	4	2	4
Lead	ppm	ASTM D5185m	>45	0	<1	2
Copper	ppm	ASTM D5185m	>85	2	<1	3
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	16	37	24
Barium	ppm	ASTM D5185m	0	0	0	4
Molybdenum	ppm	ASTM D5185m	60	51	48	48
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	874	695	739
Calcium	ppm	ASTM D5185m	1070	1067	1183	1210
Phosphorus	ppm	ASTM D5185m	1150	960	941	898
Zinc	ppm	ASTM D5185m	1270	1201	1076	1133
Sulfur	ppm	ASTM D5185m	2060	3887	3032	3157
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>30	8	3	6
Sodium	ppm	ASTM D5185m		3	0	4
Potassium	ppm	ASTM D5185m	>20	3	3	3
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.4
Nitration	Abs/cm	*ASTM D7624		7.4	6.3	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	17.4	20.0
FLUID DEGRAI	DATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	12.4	15.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.0	8.3	7.3
	IIIU I\UII/U	AO HVI DE000	0.0	7.0	0.0	7.0



OIL ANALYSIS REPORT

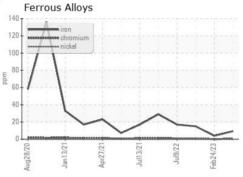


VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

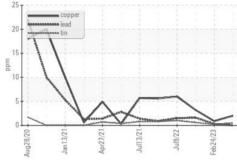
FLUID PROPE	:RHES	method			history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.4	12.3	12.3	13.0

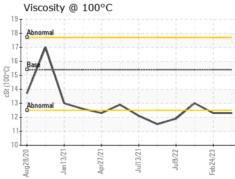
12

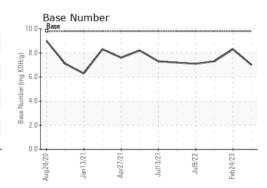
GRAPHS



Non-ferrous Metals











Certificate L2367

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

: GFL0079146 : 05894261 : 10550071

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

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

: 10 Jul 2023 Diagnosed : 11 Jul 2023 Diagnostician : Wes Davis

GFL Environmental - 665 - Stroudsburg

658 Silverspring Blvd Kunkletown, PA US 18058

Contact: David Bowman dbowman@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: