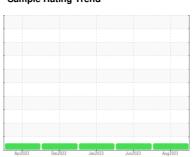


OIL ANALYSIS REPORT

Sample Rating Trend









Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

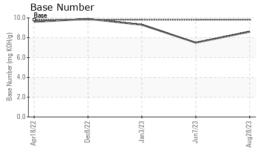
Fluid Condition

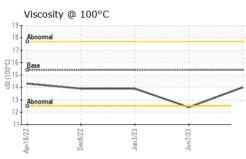
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

	G/12)	Aprilioza Decidoza Junidoza Augitoza					
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0080757	GFL0080797	GFL0068287	
Sample Date		Client Info		28 Aug 2023	07 Jun 2023	03 Jan 2023	
Machine Age	hrs	Client Info		10764	10764	9943	
Oil Age	hrs	Client Info		10764	0	600	
Oil Changed		Client Info		Not Changd	Changed	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0	0.2	<1.0	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>200	6	17	5	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>2	<1	0	0	
Titanium	ppm	ASTM D5185m		0	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>30	4	<1	2	
Lead	ppm	ASTM D5185m	>30	0	<1	<1	
Copper	ppm	ASTM D5185m		2	1	2	
Tin	ppm	ASTM D5185m	>15	- <1	<1	<1	
Vanadium	ppm	ASTM D5185m	710	0	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	4	6	3	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	64	63	61	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	1074	997	962	
Calcium	ppm	ASTM D5185m	1070	1148	1220	1128	
Phosphorus	ppm	ASTM D5185m	1150	1071	1072	1026	
Zinc	ppm	ASTM D5185m	1270	1313	1383	1297	
Sulfur	ppm	ASTM D5185m	2060	3784	4024	3694	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	5	4	3	
Sodium	ppm	ASTM D5185m		1	1	<1	
Potassium	ppm	ASTM D5185m	>20	<1	2	0	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.2	0.4	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	6.0	6.5	5.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.2	19.7	17.4	
FLUID DEGRA	OATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.6	15.6	12.9	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	7.5	9.3	
Dago Namber (DIV)	mg nong	, 10 THI DE000	0.0	0.0	7.0	0.0	



OIL ANALYSIS REPORT

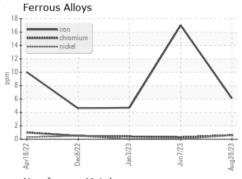


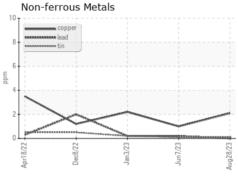


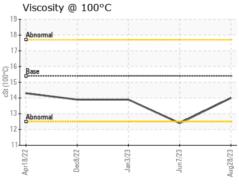
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

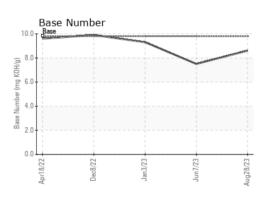
FLUID PROP	EHILO	method			riistory i	History
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	12.4	13.9

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10631154 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0080757 : 05940542

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

Received Diagnosed

: 01 Sep 2023 : 01 Sep 2023 Diagnostician : Wes Davis

GFL Environmental - 455 - Flint

2051 W. Bristol Rd Flint Township, MI US 48507 Contact: MARK WOMBLE

mwomble@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)

Report Id: GFL455 [WUSCAR] 05940542 (Generated: 09/01/2023 17:37:56) Rev: 1