

OIL ANALYSIS REPORT

Area (10A71640) 525051-651125

Component **Diesel Engine**

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

Sample Rating Trend



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

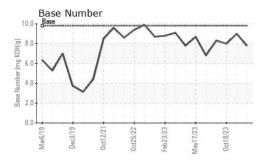
Fluid Condition

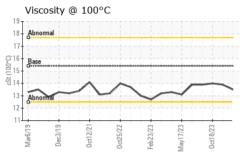
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		larzu19 De	2019 0012021 0012	022 Feb2023 May2023 (lct2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0105555	GFL0101107	GFL0098470
Sample Date		Client Info		31 Jan 2024	09 Nov 2023	18 Oct 2023
Machine Age	hrs	Client Info		0	150	0
Oil Age	hrs	Client Info		0	600	500
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	17	5	8
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	6	2	5
Lead	ppm	ASTM D5185m	>40	1	1	1
Copper	ppm	ASTM D5185m	>330	2	1	2
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	<1	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	56	56	54
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	905	848	847
Calcium	ppm	ASTM D5185m	1070	1125	1108	1030
Phosphorus	ppm	ASTM D5185m	1150	1027	977	997
Zinc	ppm	ASTM D5185m	1270	1255	1150	1165
Sulfur	ppm	ASTM D5185m	2060	3087	3051	2760
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	4	5
Sodium	ppm	ASTM D5185m		2	16	3
Potassium	ppm	ASTM D5185m	>20	4	3	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.1	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.1	5.4	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	18.1	20.1
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	13.7	16.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.8	9.0	8.0
(274)	9					



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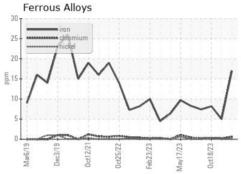


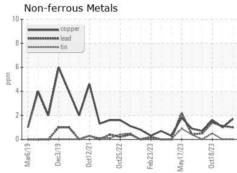


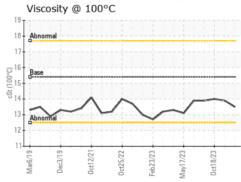
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

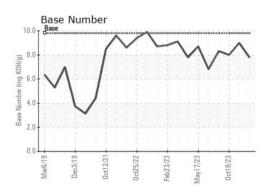
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.9	14.0

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10863155 Test Package : FLEET

: GFL0105555 : 06081064

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 06 Feb 2024

Diagnosed : 06 Feb 2024 Diagnostician : Wes Davis

GFL Environmental - 846 - Mayfield Hauling

3426 State Route 45 Mayfield, KY US 42066

Contact: Jack Lindsey jack.lindsey@gflenv.com T: (270)970-3690

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)