

OIL ANALYSIS REPORT

(YA154655) 2856C

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (8 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

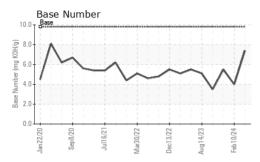
Fluid Condition

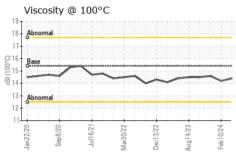
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		an2020 Se	p2020 Jul2021 Ma	ar2022 Dec2022 Aug2023	Feb2024	
SAMPLE INFO	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090006	GFL0099838	GFL0099827
Sample Date		Client Info		08 Mar 2024	10 Feb 2024	19 Dec 2023
Machine Age	hrs	Client Info		5169	12975	12482
Oil Age	hrs	Client Info		0	600	1082
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>165	4	14	1
Chromium	ppm		>5	<1	<1	<1
Nickel		ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
			>20	√ <1	2	1
Aluminum	ppm					
Lead	ppm	ASTM D5185m	>150	0	5	1
Copper	ppm		>90	<1	<1	0
Tin	ppm	ASTM D5185m	>5	0	0	2
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	28	14	14
Barium	ppm	ASTM D5185m	0	0	9	0
Molybdenum	ppm	ASTM D5185m	60	45	81	46
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	541	851	537
Calcium	ppm	ASTM D5185m	1070	1476	2326	1490
Phosphorus	ppm	ASTM D5185m	1150	739	1004	748
Zinc	ppm	ASTM D5185m	1270	874	1442	1003
Sulfur	ppm	ASTM D5185m	2060	2342	3900	2437
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	4	9	4
Sodium	ppm	ASTM D5185m		4	9	7
Potassium	ppm	ASTM D5185m	>20	0	3	81
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.1	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	8.4	12.1	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	24.6	21.0
FLUID DEGRA	ADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	19.8	17.9
Base Number (BN		ASTM D2896		7.4	4.0	5.5
Dago Harribor (DIN	, mg nong	7.0 TW D2000	0.0	1.7	7.0	0.0



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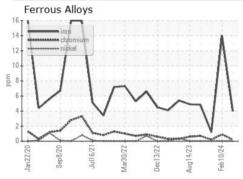


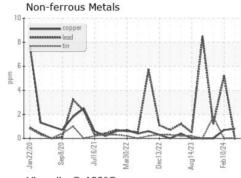


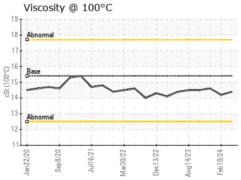
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

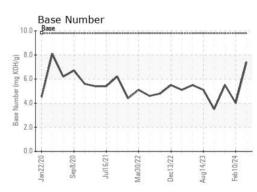
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	14.4	14.2	14.6	

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06120020 Unique Number: 10928853

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0090006 Received

Tested Diagnosed Test Package : FLEET

: 15 Mar 2024 : 18 Mar 2024 : 19 Mar 2024 - Don Baldridge

GFL Environmental - 018 - Fayetteville 4621 Marracco Drive

Hope Mills, NC US 28348 Contact: Robert Carter robert.carter@gflenv.com

T: (910)596-1170

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)

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