

OIL ANALYSIS REPORT

(72720V) 821028-101309

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

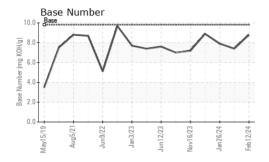
Fluid Condition

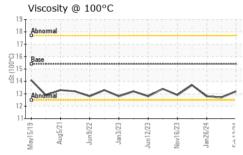
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		noyzo10 No	gzozi odnizozz odnizo	23 Jun2023 Nov2023 Jan20	24 Feb2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0104989	GFL0101991	GFL0101978
Sample Date		Client Info		12 Feb 2024	07 Feb 2024	26 Jan 2024
Machine Age	hrs	Client Info		9133	8361	8271
Oil Age	hrs	Client Info		650	587	497
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	9	10	8
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	3	4	4
Lead	ppm	ASTM D5185m	>40	0	0	1
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	2	5
Barium	ppm	ASTM D5185m	0	11	0	0
Molybdenum	ppm	ASTM D5185m	60	64	60	57
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	904	947	902
Calcium	ppm	ASTM D5185m	1070	992	1119	1005
Phosphorus	ppm	ASTM D5185m	1150	894	1038	1039
Zinc	ppm	ASTM D5185m	1270	1168	1272	1242
Sulfur	ppm	ASTM D5185m	2060	3137	3060	3253
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	4
Sodium	ppm	ASTM D5185m		22	5	4
Potassium	ppm	ASTM D5185m	>20	29	2	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.2	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.0	8.1	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	19.4	19.2
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.4	16.3	15.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.8	7.4	7.9
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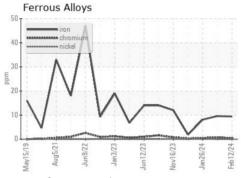


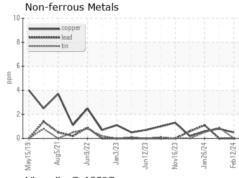


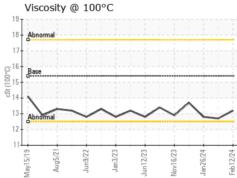
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

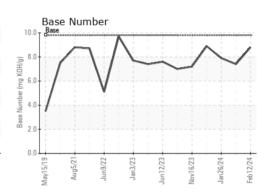
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	12.7	12.8

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number : 06089978

: GFL0104989

Unique Number : 10882831 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Feb 2024

Tested : 16 Feb 2024 Diagnosed : 16 Feb 2024 - Wes Davis

GFL Environmental - 894 - Ada Hauling

1904 North Broadway, Suite D Ada, OK

Contact: Johnny Spurlock

jspurlock@gflenv.com T: (405)664-4476

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)

US 74820