

(P663866)

10947

Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Description of the second second second second to second the second term	Sample Number		Client Info		GFL0096907	GFL0096940	GFL0050889
Resample at the next service interval to monitor.	Sample Date		Client Info		05 Feb 2024	09 Jan 2024	20 Oct 2023
	Machine Age	hrs	Client Info		3913	3732	3180
	Oil Age	hrs	Client Info		14108	3732	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>75	9	14	15
	Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	<1	0	<1
	Titanium	ppm	ASTM D5185m	>2	<1	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>15	3	5	4
	Lead	ppm	ASTM D5185m	>25	<1	0	0
	Copper	ppm	ASTM D5185m	>100	<1	<1	<1
	Tin	ppm	ASTM D5185m	>4	<1	0	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	4	5
	Potassium	ppm	ASTM D5185m	>20	1	1	2
There is no indication of any contamination in the oil.	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
	Soot %	%	*ASTM D7844	>6	0.3	0.5	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	5.6	6.6	7.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.2	17.8	18.3
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	1	<1
	Boron	ppm	ASTM D5185m	0	12	10	16
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	0	0	0	3
	Molybdenum	ppm	ASTM D5185m	60	64	53	65
	Manganese	ppm	ASTM D5185m	0	<1	0	0
	Magnesium	ppm	ASTM D5185m	1010	926	822	808
	Calcium	ppm	ASTM D5185m	1070	1089	984	1107
	Phosphorus	ppm	ASTM D5185m	1150	973	958	916
	Zinc	ppm	ASTM D5185m	1270	1228	1096	1159
	Sulfur	ppm	ASTM D5185m	2060	3048	2859	3392
	Oxidation	Abs/.1mm	*ASTM D7414	>25	12.5	12.9	13.3
	D N	1/01/1	LOTH DOGG	0.0	0.5		0.0

Base Number (BN) mg KOH/g ASTM D2896 9.8

ASTM D445 15.4

Visc @ 100°C cSt

8.3

12.9

8.3

12.8

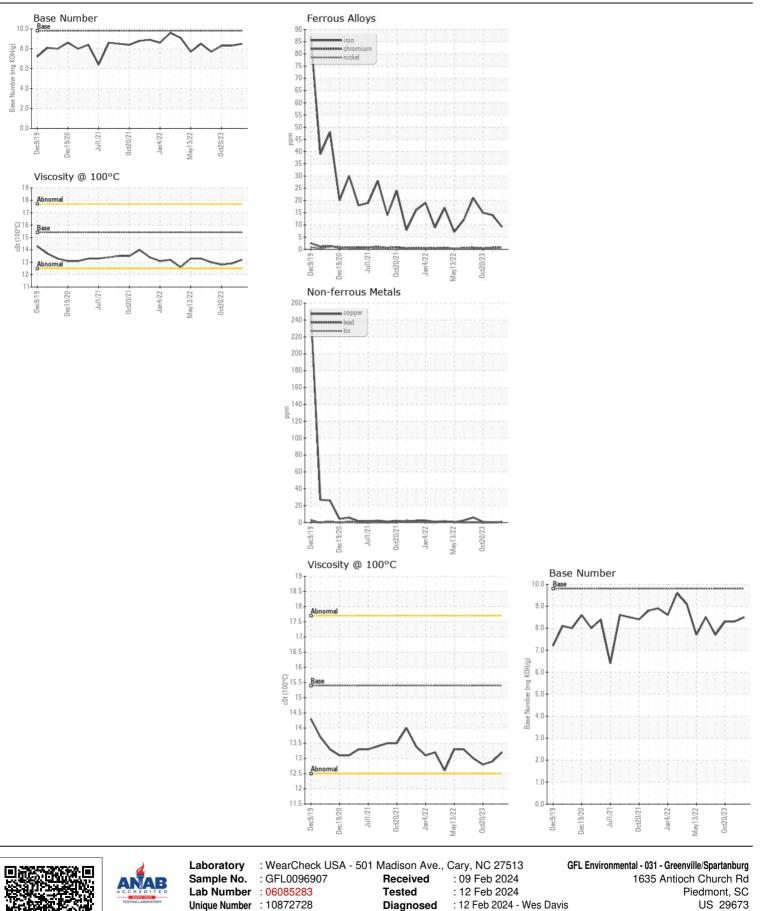
8.5

13.2

NORMAL WEAR NORMAL CONTAMINATION

FLUID CONDITION

NORMAL



Test Package : FLEET Contact: TECHNICIAN ACCOUNT Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. catherine.anastasio@wearcheck.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)

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