

Machine Id 811041-101310 Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Decemble at the next convice interval to maxitar NOTE: Disco	Sample Number		Client Info		GFL0074732	GFL0074730	GFL0046915
Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron	Sample Date		Client Info		14 Mar 2023	13 Mar 2023	15 Feb 2023
rating with next sample.	Machine Age	hrs	Client Info		3197	4468	2994
	Oil Age	hrs	Client Info		203	360	2994
	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	ABNORMAL
	Iron		ASTM D5185m	> 100	07	32	<b>1</b> 02
WEAR All component wear rates are normal.	Iron Chromium	ppm ppm	ASTM D5185m		27 2	2	5
	Nickel	ppm	ASTM D5185m		<u>ہ</u> <1	1	<1
	Titanium	ppm	ASTM D5185m	~7	0	0	<1
	Silver	ppm	ASTM D5185m	-3	0	<1	0
	Aluminum	ppm	ASTM D5185m		10	14	29
	Lead	ppm	ASTM D5185m		<1	<1	2
	Copper	ppm	ASTM D5185m		1	1	4
	Tin	ppm	ASTM D5185m		- <1	<1	1
	Vanadium	ppm	ASTM D5185m	210	<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	-	8	4	<b>2</b> 5
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		19	12	83
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.6	0.7	1.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.0	8.2	12.6
	Sulfation	Abs/.1mm	*ASTM D7415		20.2	19.5	27.2
	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		3	2	8
	Boron	ppm	ASTM D5185m	0	22	3	15
The BN result indicates that there is suitable alkalinity remaining in the	Barium	ppm	ASTM D5185m		0	0	0
oil. The condition of the oil is suitable for further service.	Molybdenum	ppm	ASTM D5185m		78	55	150
	Manganese	ppm	ASTM D5185m		<1	<1	2
	Magnesium	ppm	ASTM D5185m		915	866	907
	Calcium	ppm	ASTM D5185m		1108	984	1088
	Phosphorus	ppm	ASTM D5185m		977	926	878
	Zinc	ppm	ASTM D5185m		1180	1167	1148
	Sulfur	ppm	ASTM D5185m		2922	3339	3005
	Oxidation		*ASTM D7414		15.7	15.0	25.4
	<b>B</b>						

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

ASTM D445 15.4

Visc @ 100°C cSt

5.0

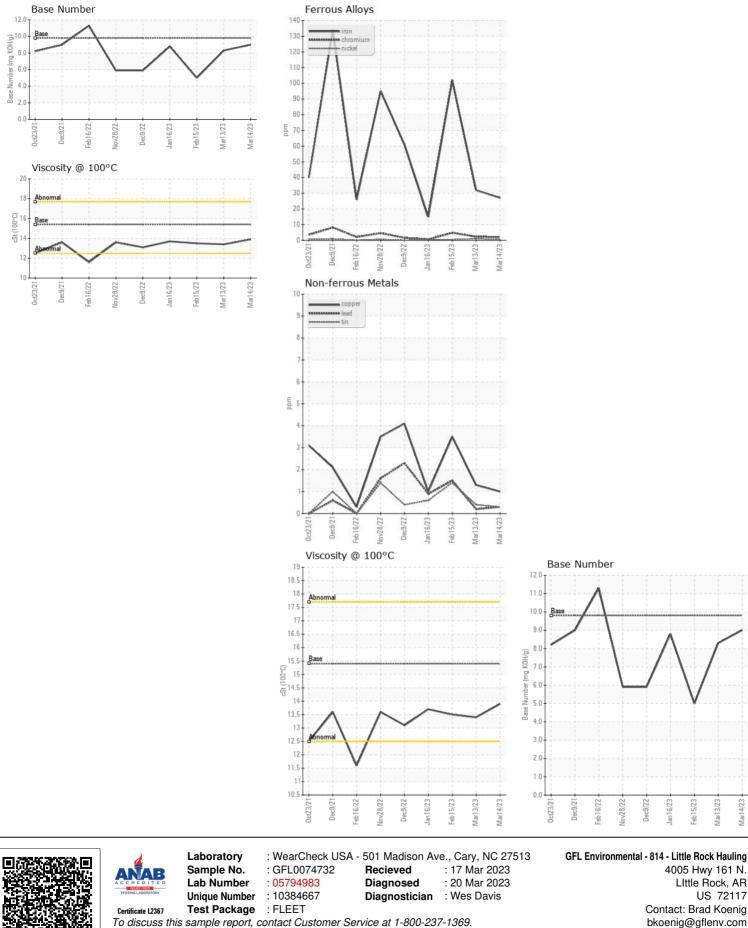
13.5

8.3

13.4

9.0

13.9



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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