

Machine Id 811046 Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

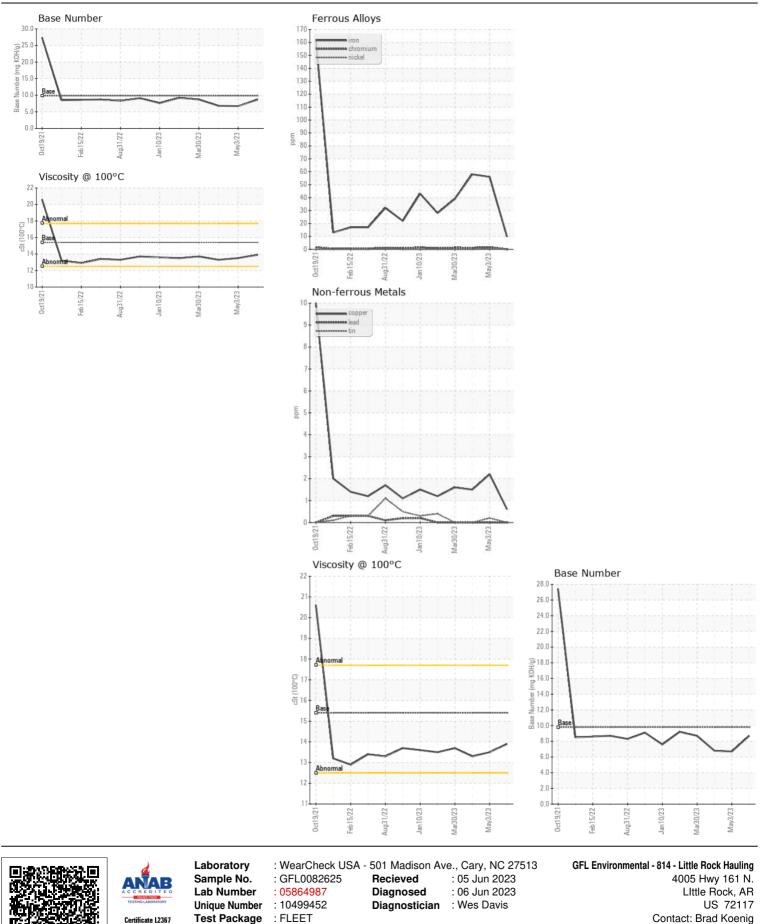
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0082625	GFL0074748	GFL0074703
	Sample Date		Client Info		30 May 2023	03 May 2023	25 Apr 2023
	Machine Age	hrs	Client Info		4670	4531	4479
	Oil Age	hrs	Client Info		0	52	4479
	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
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	10	56	58
	Chromium	ppm	ASTM D5185m	>20	0	2	1
	Nickel	ppm	ASTM D5185m	>4	0	<1	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	9	25	<u> </u>
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	<1	2	2
	Tin	ppm	ASTM D5185m	>15	0	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<25	7	13	10
CONTAMINATION	Potassium	ppm	ASTM D5185m		23	40	39
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	<u>\</u> 3	0.4	1.1	1
	Nitration	Abs/cm	*ASTM D7624	>20	6.0	9.5	9.1
	Sulfation	Abs/.1mm	*ASTM D7024		18.6	19.1	18.8
	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		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION							
	Sodium	ppm	ASTM D5185m	0	4	4	4
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		14	1	0
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		81	57	60
	Manganese	ppm	ASTM D5185m		0	1	1
	Magnesium	ppm	ASTM D5185m		917	970	981
	Calcium	ppm	ASTM D5185m		1075	1040	1060
	Phosphorus	ppm	ASTM D5185m		966	1004	992
	Zinc	ppm	ASTM D5185m		1186	1275	1242
	Sulfur	ppm	ASTM D5185m		3693	3523	3137
	Oxidation	Abs/.1mm	*ASTM D7414		13.7	15.8	15.4
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.7	6.7	6.8
		<u> </u>	10T11D(:-			10 -	10.0

Visc @ 100°C cSt ASTM D445 15.4

13.3

13.5

13.9



 Certificate L2367
 Test Package
 : FLEET

 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.

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 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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