

Machine Id 929064-192616 Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- LTR)

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All component wear rates are normal.

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

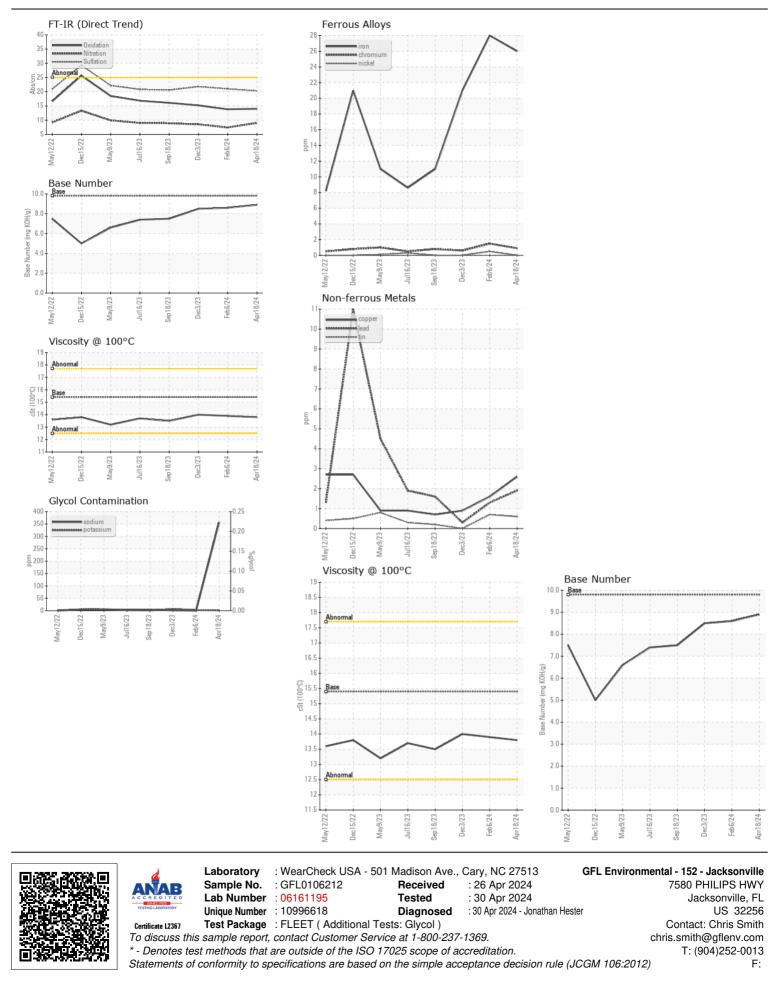
CONTAMINATION

Sodium and/or potassium levels are high.

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil.

Te	est	UOM	Method	Limit/Abn	Current	History1	History2
Sa	mple Number		Client Info		GFL0106212	GFL0106126	GFL0082073
Sa	ample Date		Client Info		18 Apr 2024	06 Feb 2024	03 Dec 2023
Ma	achine Age	hrs	Client Info		14566	13965	13481
Oi	l Age	hrs	Client Info		600	600	0
Fil	ter Age	hrs	Client Info		600	600	0
Oi	I Changed		Client Info		Changed	Changed	Changed
Fil	ter Changed		Client Info		Changed	Changed	Changed
Sa	ample Status				ABNORMAL	NORMAL	NORMAL
lro		ppm	ASTM D5185m	>110	26	28	21
-	nromium	ppm	ASTM D5185m	>4	<1	2	<1
	ckel	ppm	ASTM D5185m	>2	0	<1	0
	tanium	ppm	ASTM D5185m	. 0	0	<1	0
-	lver	ppm	ASTM D5185m	>2	0	0	0
	uminum	ppm	ASTM D5185m	>25	1 2	<1	
-	ad	ppm	ASTM D5185m	>45 >85	2 3	1	<1
Tir	opper	ppm	ASTM D5185m	>85 >4	-		< 1
	n anadium	ppm	ASTM D5185m ASTM D5185m	>4	<1 0	<1 0	0
	hite Metal	ppm	*Visual	NONE	-	NONE	NONE
		scalar		NONE	NONE NONE		
re	ellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Sil	licon	ppm	ASTM D5185m	>30	7	5	3
Po	otassium	ppm	ASTM D5185m	>20	2	2	6
Fu	iel		WC Method	>5	<1.0	<1.0	<1.0
Wa	ater		WC Method	>0.2	NEG	NEG	NEG
Gl	ycol	%	*ASTM D2982		NEG	NEG	NEG
So	oot %	%	*ASTM D7844	>3	1.4	1.7	1.5
Nit	tration	Abs/cm	*ASTM D7624	>20	9.0	7.4	8.5
Su	ulfation	Abs/.1mm	*ASTM D7415	>30	20.3	21.0	21.8
Sil	lt	scalar	*Visual	NONE	NONE	NONE	NONE
De	ebris	scalar	*Visual	NONE	NONE	NONE	NONE
Sa	and/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Ap	pearance	scalar	*Visual	NORML	NORML	NORML	NORML
Oc	dor	scalar	*Visual	NORML	NORML	NORML	NORML
Em	nulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
50	odium	ppm	ASTM D5185m		357	0	2
	pron		ASTM D5185m	0	5	9	-
	arium	ppm ppm	ASTM D5185m	0	0	0	5
	olybdenum	ppm	ASTM D5185m	60	78	69	61
	anganese	ppm	ASTM D5185m	0	<1	<1	0
	agnesium	ppm	ASTM D5185m	1010	978	1042	901
	alcium	ppm	ASTM D5185m	1070	1145	1134	1090
	nosphorus	ppm	ASTM D5185m	1150	1056	1016	951
Zir	-	ppm	ASTM D5185m	1270	1296	1346	1197
	ılfur	ppm	ASTM D5185m	2060	3702	2994	4384
	kidation	Abs/.1mm	*ASTM D7414	>25	14.0	13.8	15.2
	se Number (BN)	mg KOH/g	ASTM D2896	9.8	8.9	8.6	8.5
	sc @ 100°C	cSt	ASTM D445	15.4	13.8	13.9	14.0
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Submitted By: WITH iNDIANA GFL - Chris Smith Page 2 of 2