

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id 913092 Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (40 QTS)

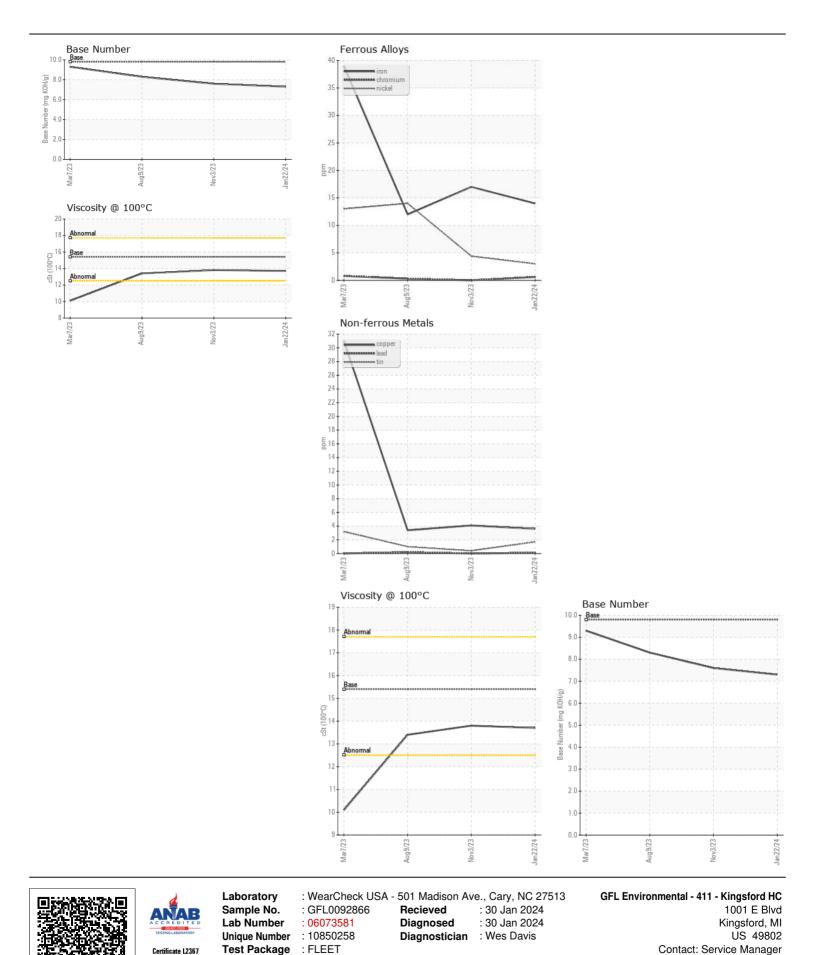
	131140 (40 (x (0)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0092866	GFL0092850	GFL0085619
Resample at the next service interval to monitor.	Sample Date		Client Info		22 Jan 2024	03 Nov 2023	09 Aug 2023
	Machine Age	hrs	Client Info		1342	995	409
	Oil Age	hrs	Client Info		347	586	194
	Filter Age	hrs	Client Info		347	586	194
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		14	17	12
	Chromium	ppm	ASTM D5185m		<1	0	<1
	Nickel	ppm	ASTM D5185m		3	4	14
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		<1	0	<1
	Aluminum	ppm	ASTM D5185m	>20	4	2	<1
	Lead	ppm	ASTM D5185m	>40	<1	0	<1
	Copper	ppm	ASTM D5185m	>330	4	4	3
	Tin	ppm	ASTM D5185m	>15	2	<1	1
	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		ASTM D5185m	. 05	0	Α	0
CONTAMINATION		ppm	ASTM D5185m ASTM D5185m		3 9	4	8
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	WC Method		-	o <1.0	<1.0
	Water				<1.0 NEG		<1.0 NEG
	Glycol		WC Method WC Method	>0.2	NEG	NEG NEG	NEG
	Soot %	%	*ASTM D7844	. 4	0.5	0.6	0.3
	Nitration	Abs/cm	*ASTM D7644	>4 >20	8.9	8.6	6.3
	Sulfation	Abs/.1mm	*ASTM D7624		20.3	19.9	18.5
	Silt		*Visual	NONE	20.3 NONE	NONE	NONE
	Debris	scalar 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
		Scalai	visuai	>0.2		NLG	NLO
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	3	3
	Boron	ppm	ASTM D5185m	0	6	19	44
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
	Molybdenum	ppm	ASTM D5185m	60	58	62	66
	Manganese	ppm	ASTM D5185m		<1	0	1
	Magnesium	ppm	ASTM D5185m		925	975	969
	Calcium	ppm	ASTM D5185m		1087	1215	1286
	Phosphorus	ppm	ASTM D5185m		1031	1054	1025
	Zinc	ppm	ASTM D5185m		1245	1348	1283
	Sulfur	ppm	ASTM D5185m		2846	3228	3994
	Oxidation	Abs/.1mm	*ASTM D7414		15.8	15.8	14.3
	Base Number (BN)				7.3	7.6	8.3

Visc @ 100°C cSt ASTM D445 15.4

13.8

13.7

13.4



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)

Submitted By: TECHNICIAN ACCOUNT

Page 2 of 2