

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id 913019 Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (11 GAL)

	131140 (111						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0100425	GFL0038528	GFL0076915
	Sample Date		Client Info		30 Jan 2024	20 Oct 2023	18 Aug 2023
	Machine Age	hrs	Client Info		2556	2018	1648
	Oil Age	hrs	Client Info		538	370	528
	Filter Age	hrs	Client Info		538	370	528
	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	>120	13	10	20
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m		4	2	<u> </u>
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m		<1	0	<1
	Aluminum	ppm	ASTM D5185m		4	4	2
	Lead	ppm	ASTM D5185m		0	<1	<1
	Copper	ppm	ASTM D5185m		2	12	93
	Tin	ppm	ASTM D5185m		1	<1	1
	Vanadium	ppm	ASTM D5185m	215	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon			05		4	
		ppm	ASTM D5185m		4	4	5
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		6	8	4
	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	0.4	0.6
	Nitration	Abs/cm	*ASTM D7624		8.5	7.3	8.7
	Sulfation	Abs/.1mm	*ASTM D7415		19.8	18.9	20.2
	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		7	7	7
	Boron	ppm	ASTM D5185m	0	12	10	9
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	2
	Molybdenum	ppm	ASTM D5185m	60	63	62	68
	Manganese	ppm	ASTM D5185m	0	<1	0	<1
	Magnesium	ppm	ASTM D5185m		969	884	938
	Calcium	ppm	ASTM D5185m		1098	1047	1150
	Phosphorus	ppm	ASTM D5185m		1044	973	966
	Zinc	ppm	ASTM D5185m		1280	1153	1197
	Sulfur	ppm	ASTM D5185m		2979	3319	2737
	Oxidation	Abs/.1mm	*ASTM D3103/11		15.7	14.4	16.2
	Base Number (BN)				7.9	7.9	7.4
			ASTIVI D2090	5.0	10.0	10.9	10.6

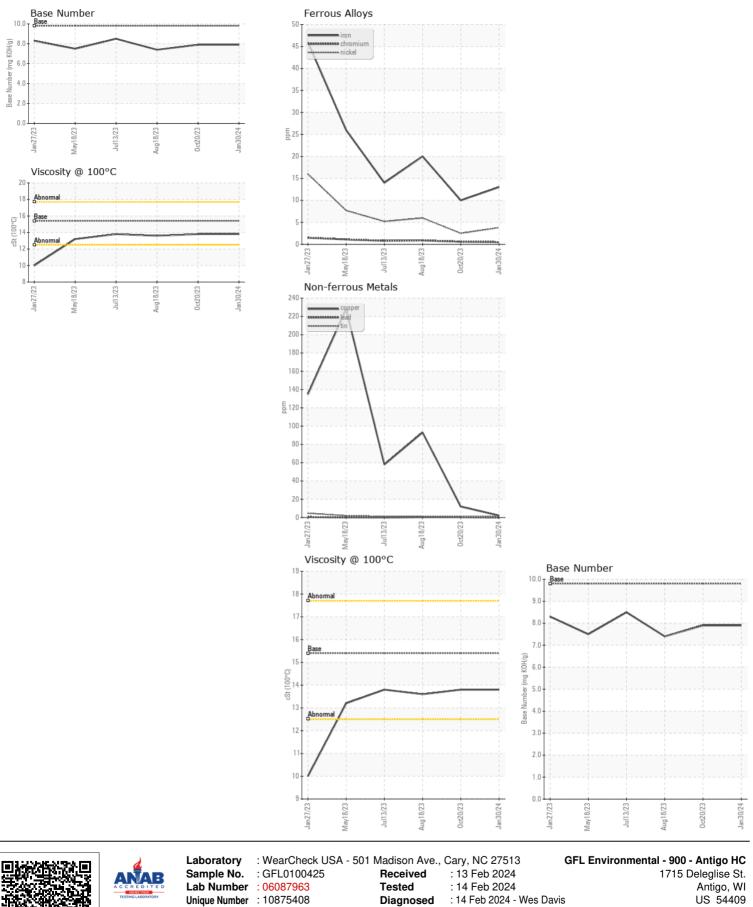
Visc @ 100°C cSt

ASTM D445 15.4

13.8

13.8

13.6



 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.

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

F:

Contact: Kirk Koss

T: (715)571-2784

kirk.koss@gflenv.com