

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id 827M Component Diesel Engine

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		GFL0104461	GFL0104298	GFL0104361
	Sample Date		Client Info		11 Apr 2024	07 Mar 2024	04 Mar 2024
	Machine Age	hrs	Client Info		16311	15965	15905
	Oil Age	hrs	Client Info		600	600	600
	Filter Age	hrs	Client Info		600	600	600
	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		13	8	21
	Chromium	ppm	ASTM D5185m		2	0	0
	Nickel	ppm	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m	0	0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		19	<1	4
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		1	0	0
	Tin	ppm	ASTM D5185m	>5	<1	0	0
	Vanadium	ppm	ASTM D5185m	NONE	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	5	2	11
	Potassium	ppm	ASTM D5185m	>20	18	0	1
There is no indication of any contamination in the oil.	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	>3	0.4	0.3	0.9
	Nitration	Abs/cm	*ASTM D7624	>20	6.5	6.4	7.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	18.3	19.6
	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	O e elle see						~
	Sodium	ppm	ASTM D5185m	0	1	<1	5
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		1	<1	0
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m ASTM D5185m		60	52	56 <1
	Manganese	ppm			<1 1016	0	
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		1016 1102	865 968	908 974
	Phosphorus	ppm	ASTM D5185m ASTM D5185m			968 971	974
		ppm			1140		
	Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m		1344	1128 3217	1175 2698
	Oxidation	ppm Abs/.1mm	*ASTM D5165/11		3770 14.0	14.3	14.6
	Base Number (BN)				9.0	8.4	7.7
				5.0	5.0	0.4	1.1

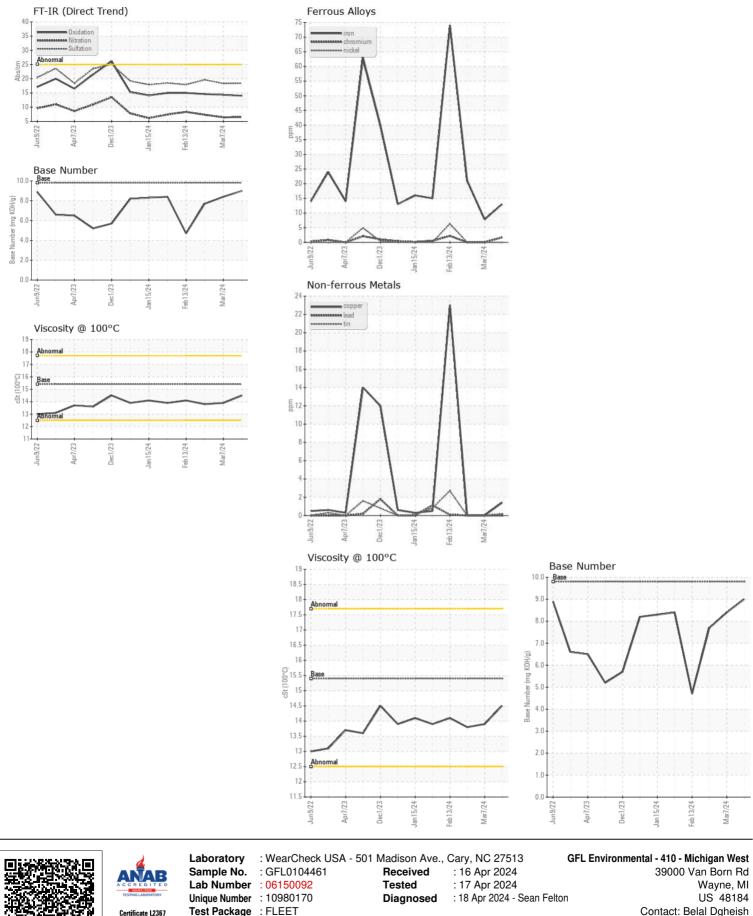
Visc @ 100°C cSt

ASTM D445 15.4

13.9

13.8

14.5



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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