

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

{UNASSIGNED}

411025

Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (10 GAL)

TETTO CATADA DOTION OTT 191140 (10 GAL	/						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0115981	GFL0090055	GFL0080519
	Sample Date		Client Info		21 May 2024	10 Feb 2024	13 Oct 2023
	Machine Age	hrs	Client Info		0	1328	1328
	Oil Age	hrs	Client Info		0	600	1328
	Filter Age	hrs	Client Info		0	600	0
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		N/A	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>90	11	10	10
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	<1	<1
	Nickel	ppm	ASTM D5185m		0	<1	<1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		7	4	0
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		0	<1	<1
	Tin	ppm	ASTM D5185m		0	<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	ppm	ASTM D5185m	<u>_</u> 25	3	4	2
CONTAMINATION	Potassium	ppm	ASTM D5185m		20	7	6
There is no indication of any contamination in the oil.	Fuel	ppm	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	>6	0.8	0.8	0.6
	Nitration	Abs/cm	*ASTM D7624		8.8	8.7	7.4
	Sulfation	Abs/.1mm	*ASTM D7624		19.9	19.5	18.9
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION					•		.4
	Sodium	ppm	ASTM D5185m	0	9	4	<1
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		0	2	<1
	Barium	ppm	ASTM D5185m		0	0	2
	Molybdenum	ppm	ASTM D5185m		64	60	60
	Manganese	ppm	ASTM D5185m		0	0	<1
	Magnesium	ppm	ASTM D5185m		1015	929	834
	Calcium	ppm	ASTM D5185m		1219	1059	1025
	Phosphorus	ppm	ASTM D5185m		1103	970	962
	Zinc	ppm	ASTM D5185m		1367	1199	1117
	Sulfur	ppm	ASTM D5185m		3630	2961	2886
	Oxidation	Abs/.1mm	*ASTM D7414		15.4	15.4	14.0
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.8	8.1	8.0
		~C'+		1 5 /		1 1 1 0	1/0

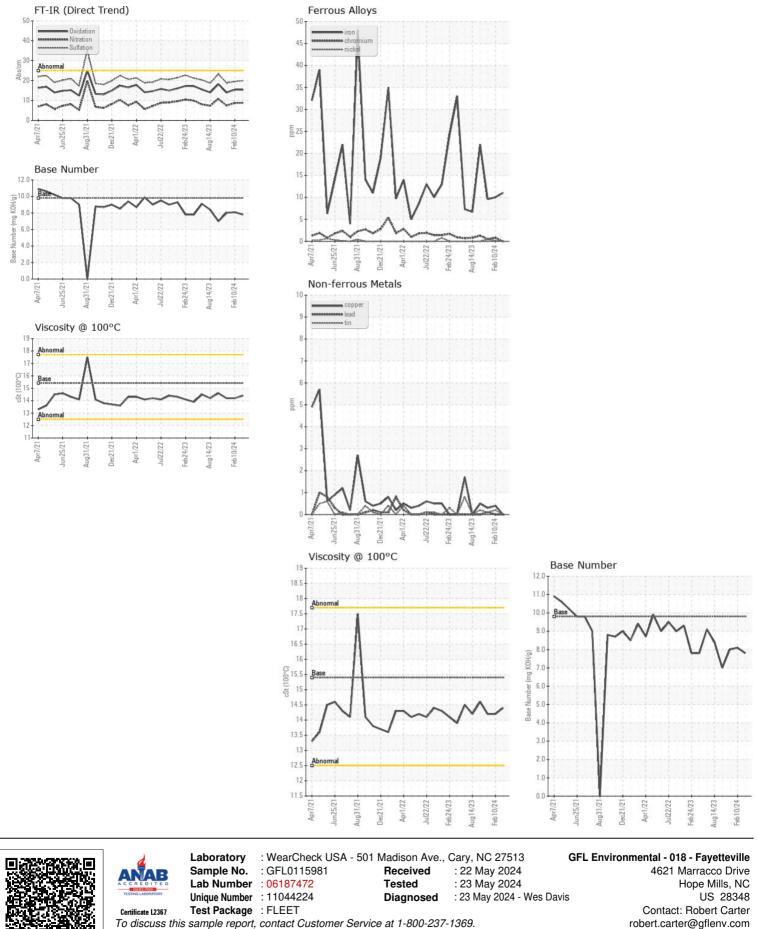
Visc @ 100°C cSt

ASTM D445 15.4

14.2

14.2

14.4



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)

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F: