

NORMAL WEAR NORMAL CONTAMINATION FLUID CONDITION NORMAL

Machine Id 722042 nponen **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		GFL0113018	GFL0084793	GFL0084838
	Sample Date		Client Info		09 May 2024	05 Feb 2024	07 Sep 2023
	Machine Age	hrs	Client Info		22046	22037	21981
	Oil Age	hrs	Client Info		22046	21981	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>120	<1	11	8
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	<1	2	4
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m	>330	6	3	2
	Tin	ppm	ASTM D5185m		<1	0	<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	6	6
	Potassium	ppm	ASTM D5185m		۲ ۲	5	5
There is no indication of any contamination in the oil.	Fuel	ррпі	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	<u>_</u> 4	0.1	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	4.8	8.9	8.8
	Sulfation	Abs/.1mm	*ASTM D7415		17.4	20.0	19.9
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium		ASTM D5185m		5	3	4
	Boron	ppm	ASTM D5185m	0	4	10	10
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		4 <1	9	0
	Molybdenum	ppm ppm	ASTM D5185m		57	47	51
	Manganese	ppm	ASTM D5185m		57 <1	0	<1
	Magnesium	ppm	ASTM D5185m		947	786	951
	Calcium	ppm	ASTM D5185m		1058	980	1171
	Phosphorus	ppm	ASTM D5185m		1116	840	1010
	Zinc		ASTM D5185m		1260	1012	1241
	Sulfur	ppm	ASTM D5185m		3711	2969	3801
	Oxidation	ppm Abs/.1mm	*ASTM D5165111		13.5	17.1	16.9
	Base Number (BN)	nių kunig	AS IN D2096	9.0	9.8	7.2	7.2

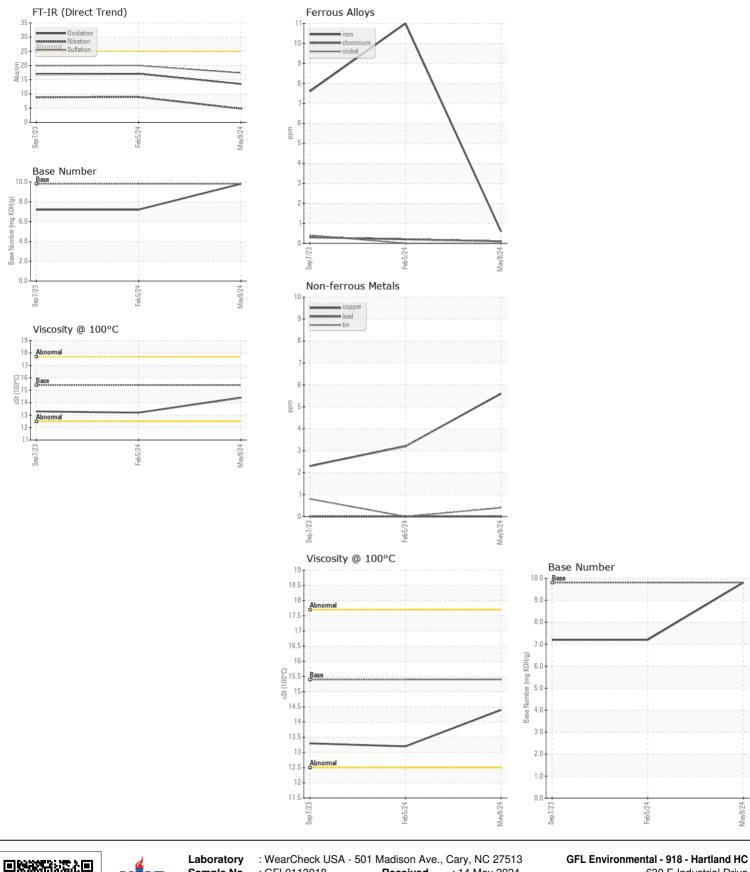
Visc @ 100°C cSt

ASTM D445 15.4

13.3

13.2

14.4



Sample No. Received 630 E Industrial Drive : GFL0113018 : 14 May 2024 Lab Number : 06178392 Tested : 14 May 2024 Hartland, WI Unique Number : 11029718 Diagnosed : 14 May 2024 - Wes Davis US 53029 Test Package : FLEET Contact: David McCall Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. david.mccall@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (262)369-3069 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: