

Machine Id 945021-260279 Component Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (600 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0121923	GFL0092059	GFL0092031
	Sample Date		Client Info		22 May 2024	20 Feb 2024	04 Dec 2023
	Machine Age	hrs	Client Info		29125	28597	28017
	Oil Age	hrs	Client Info		28597	600	600
	Filter Age	hrs	Client Info		28597	600	600
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>50	4	6	6
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>2	<1	0	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>9	2	1	2
	Lead	ppm	ASTM D5185m	>30	<1	<1	0
	Copper	ppm	ASTM D5185m	>35	0	<1	<1
	Tin	ppm	ASTM D5185m	>4	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>+100	6	6	5
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	4	0	9
	Water		WC Method	>0.1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0	0.1	0
	Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.9	7.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	19.3	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5	3	3
The DN requiting instant there is quitable ellevinity remaining in the	Boron	ppm	ASTM D5185m	50	34	28	30
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	5	0	0	0
	Molybdenum	ppm	ASTM D5185m	50	48	47	48
	Manganese	ppm	ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m		564	530	657
	Calcium	ppm	ASTM D5185m		1500	1453	1722
	Phosphorus	ppm	ASTM D5185m		766	720	918
	Zinc	ppm	ASTM D5185m		881	878	1099
	Sulfur	ppm	ASTM D5185m		2689	2277	2779
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	16.5	15.9

Base Number (BN) mg KOH/g ASTM D2896 10.2

ASTM D445 15.1

Visc @ 100°C cSt

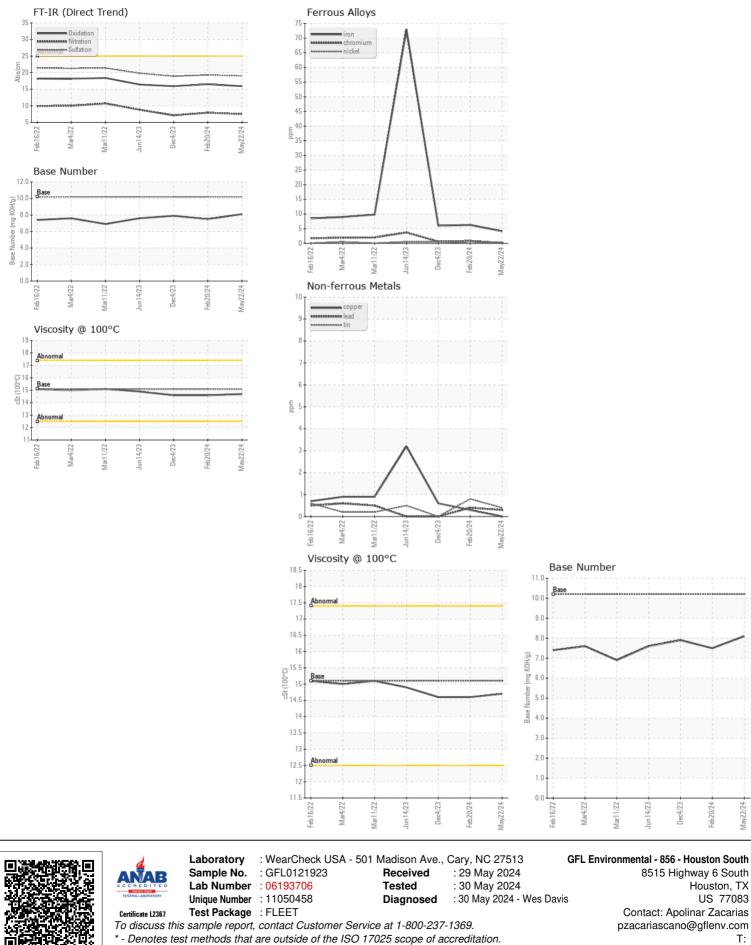
14.6

7.5 7.9

14.6

8.1

14.7



* - 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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