

Machine Id

NORMAL WEAR NORMAL CONTAMINATION FLUID CONDITION NORMAL

933009 onen Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (--- GAL)

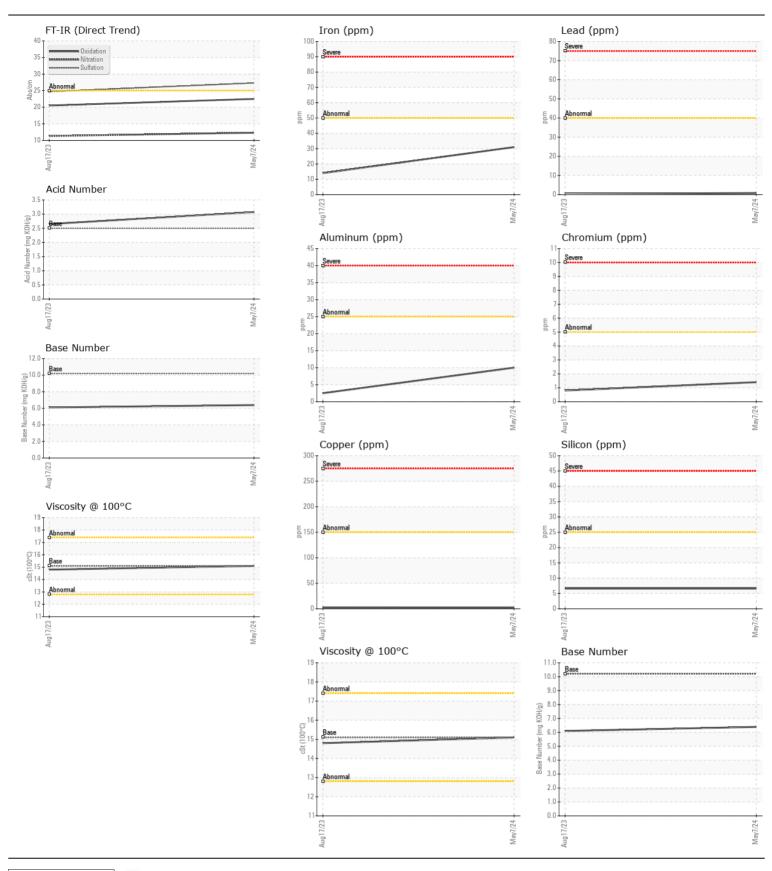
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0117338 07 May 2024	GFL0084349	
	Sample Date	kmo	Client Info Client Info		-	17 Aug 2023 1991	
	Machine Age	kms	Client Info		0 56375	809	
	Oil Age	kms			0	809	
	Filter Age Oil Changed	kms	Client Info Client Info			Changed	
	Filter Changed		Client Info		Changed Changed	Changed	
	Sample Status		Cilent Inio		NORMAL	NORMAL	
	Sample Status					NORMAL	
WEAR	Iron	ppm	ASTM D5185(m)	>50	31	14	
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>5	1	<1	
	Nickel	ppm	ASTM D5185(m)	>4	1	<1	
	Titanium	ppm	ASTM D5185(m)	>5	0	0	
	Silver	ppm	ASTM D5185(m)	>3	0	0	
	Aluminum	ppm	ASTM D5185(m)	>25	10	2	
	Lead	ppm	ASTM D5185(m)	>40	<1	<1	
	Copper	ppm	ASTM D5185(m)	>150	3	3	
	Tin	ppm	ASTM D5185(m)	>4	<1	<1	
	Vanadium	ppm	ASTM D5185(m)		0	0	
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	7	7	
CONTAMINATION	Potassium	ppm	ASTM D5185(m)		5	2	
There is no indication of any contamination in the oil.	Water	ррпп	WC Method	>0.1	NEG	NEG	
	Soot %	%	ASTM D7844*	20.1	0	0	
	Nitration	Abs/cm	ASTM D7624*	>20	12.3	11.3	
	Sulfation	Abs/.1mm	ASTM D7415*	>30	27.3	24.7	
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance	scalar	Visual*	NORML	NORML		
	Odor	scalar	Visual*	NORML	NORML	NORML	
	Emulsified Water		Visual*	>0.1	NEG	NEG	
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185(m)	-	9	7	
	Boron	ppm	ASTM D5185(m)		12	8	
	Barium	ppm	ASTM D5185(m)		<1	0	
	Molybdenum	ppm	ASTM D5185(m)		60	52	
	Manganese	ppm	ASTM D5185(m)		1	1	
	Magnesium	ppm	ASTM D5185(m)		618	577	
	Calcium	ppm	ASTM D5185(m)		1782	1590	
	Phosphorus	ppm	ASTM D5185(m)		794	714	
	Zinc	ppm	ASTM D5185(m)		996	908	
	Sulfur	ppm	ASTM D5185(m)		1988	1905	
	Oxidation	Abs/.1mm	ASTM D7414*		22.5	20.5	
	Acid Number (AN)	mg KOH/g	ASTM D974*		3.07	2.65	
	Base Number (BN)	mg KOH/g		10.2	6.39	6.10	
	i-pH	Scale 0-14	ASTM D7946*	<4.5	5.05	5.07	

Visc @ 100°C cSt

ASTM D7279(m) 15.1

14.8

15.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County CALA Sample No. : GFL0117338 Received : 16 May 2024 220 Carmek Blvd Lab Number : 02635989 Tested : 21 May 2024 Rocky View County, AB ISO 17025:2017 Accredited : 21 May 2024 - Wes Davis CA T1X 1X1 Unique Number : 5785151 Diagnosed Laboratory Test Package : MOB 2 (Additional Tests: i-pH, TAN Auto, TAN Man, Visual) Contact: GFL Calgary To discuss this sample report, contact Customer Service at 1-800-268-2131. calgarymaintenance@gflenv.com Т: Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: (403)369-6163 Validity of results and interpretation are based on the sample and information as supplied.

Contact/Location: GFL Calgary - GFL550 Page 2 of 2