

OIL ANALYSIS REPORT

NORMAL



Machine Id 433012 Natural Gas Engine

PETRO CANADA DURON





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the

Fluid Condition

The condition of the oil is acceptable for the time in service.

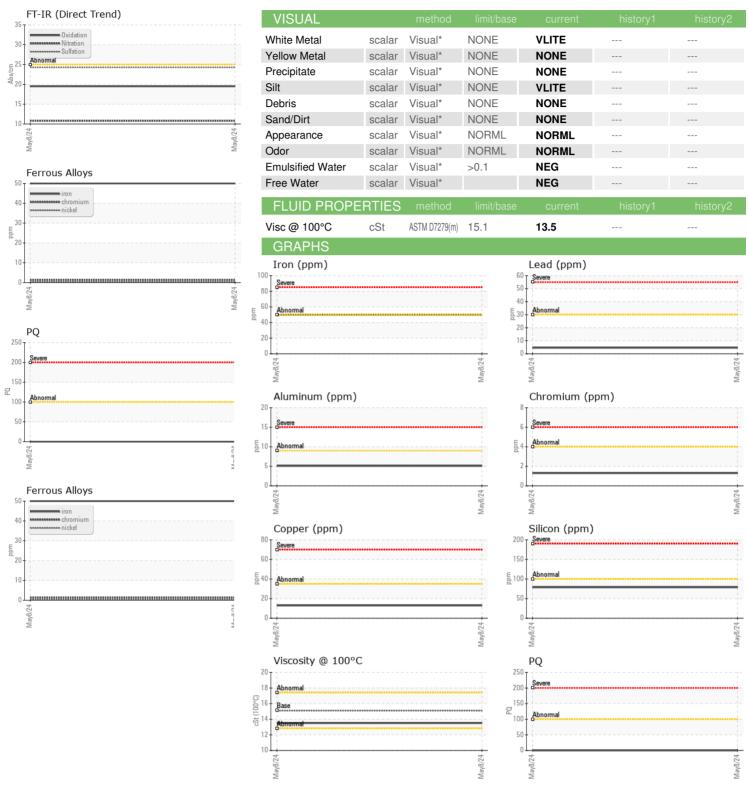
GEO LD 15W40 (-	GAL)			May2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0080159		
Sample Date		Client Info		08 May 2024		
Machine Age	hrs	Client Info		1200		
Oil Age	hrs	Client Info		600		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
PQ		ASTM D8184*		0		
Iron	ppm	ASTM D5185(m)	>50	50		
Chromium	ppm	ASTM D5185(m)	>4	1		
Nickel	ppm	ASTM D5185(m)	>2	<1		
Titanium	ppm	ASTM D5185(m)	1	<1		
Silver			. 0	0		
	ppm	ASTM D5185(m)	>3			
Aluminum	ppm	ASTM D5185(m)	>9	5		
Lead	ppm	ASTM D5185(m)	>30	5		
Copper 	ppm	ASTM D5185(m)	>35	13		
Tin	ppm	ASTM D5185(m)	>4	2		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	50	12		
Barium	ppm	ASTM D5185(m)	5	6		
Molybdenum	ppm	ASTM D5185(m)	50	117		
Manganese	ppm	ASTM D5185(m)	0	5		
Magnesium	ppm	ASTM D5185(m)	560	714		
Calcium	ppm	ASTM D5185(m)	1510	1369		
Phosphorus	ppm	ASTM D5185(m)	780	668		
Zinc	ppm	ASTM D5185(m)	870	863		
Sulfur	ppm	ASTM D5185(m)	2040	2311		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>+100	79		
Sodium	ppm	ASTM D5185(m)		4		
Potassium	ppm	ASTM D5185(m)	>20	7		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0		
Nitration	Abs/cm	ASTM D7624*	>20	10.8		
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.3		
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
0 . 1 .:	Al / d	AOTA D744 4*	0.5	10.5		

Oxidation

19.5



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 577 - First Class

: GFL0080159 Lab Number : 02647559 Unique Number : 5813111

Received : 12 Jul 2024 **Tested** Diagnosed

: 12 Jul 2024

: 15 Jul 2024 - Kevin Marson

Chilliwack, BC **CA V2R 3W8** Contact: Derek Jessop djessop@gflenv.com T: (604)798-5301

8540 Chilliwack Mountain Rd,

Test Package : MOB 1 (Additional Tests: PQ, Visual) To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.