

OIL ANALYSIS REPORT

(N4933S) 426083

Natural Gas Engine

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

Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

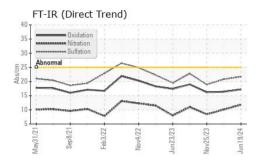
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

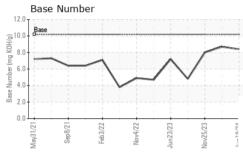
(LTR)		May2021	Sep2021 Feb2022	Nov2022 Jun2023 Nov2023	Jun2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0119114	GFL0106991	GFL0089746
Sample Date		Client Info		19 Jun 2024	01 Mar 2024	25 Nov 2023
Machine Age	hrs	Client Info		21290	21290	20923
Oil Age	hrs	Client Info		21915	367	351
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	22	18	2
Chromium	ppm	ASTM D5185m	>4	<1	0	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	<1	1
Lead	ppm	ASTM D5185m	>30	<1	0	0
Copper	ppm	ASTM D5185m	>35	1	0	<1
Tin	ppm	ASTM D5185m	>4	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	5	2	23
Barium	ppm	ASTM D5185m	5	0	2	0
Molybdenum	ppm	ASTM D5185m	50	60	58	46
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	560	877	888	550
Calcium	ppm	ASTM D5185m	1510	1275	1029	1407
Phosphorus	ppm	ASTM D5185m	780	896	1017	744
Zinc	ppm	ASTM D5185m	870	1233	1206	905
Sulfur	ppm	ASTM D5185m	2040	2730	2677	2301
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	4	2	2
Sodium	ppm	ASTM D5185m		27	17	6
Potassium	ppm	ASTM D5185m	>20	21	6	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		1.3	1.5	0
Nitration	Abs/cm	*ASTM D7624	>20	11.8	10.1	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	20.8	18.9
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	16.4	16.2

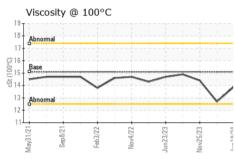
Base Number (BN) mg KOH/g ASTM D2896 10.2 8.4



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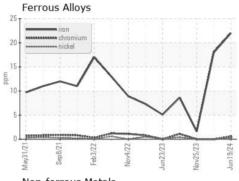


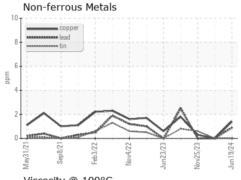


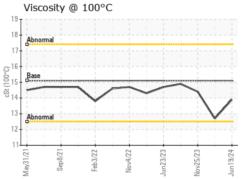
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

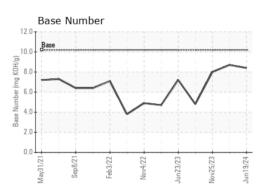
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	13.9	12.7	14.4

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06216611 Unique Number : 11089475 Test Package : FLEET

: GFL0119114

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Jun 2024 **Tested**

: 24 Jun 2024 Diagnosed : 24 Jun 2024 - Wes Davis

GFL Environmental - 882 - Gainesville

5002 SW 41st Blvd Gainesville, FL US 32608

Contact: ROBERT CLARK robert.clark@gflenv.com

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)

Report Id: GFL882 [WUSCAR] 06216611 (Generated: 06/24/2024 09:09:57) Rev: 1

Submitted By: CARL MIMS

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