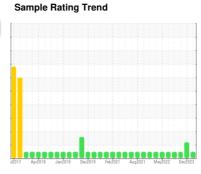


OIL ANALYSIS REPORT

(YA139853) 10745C

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (30 QTS)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: oil service)

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

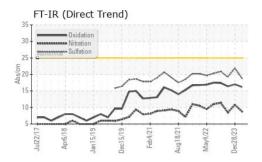
Fluid Condition

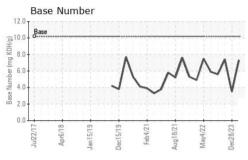
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

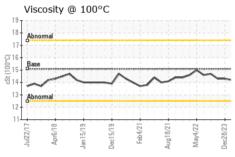
(30 QTS) až017 Aprž018 Janž019 Decž019 Fabž021 Augž021 Mayž022 Decž023						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0124490	GFL0098492	GFL0082219
Sample Date		Client Info		18 Jun 2024	28 Dec 2023	17 May 2023
Machine Age	hrs	Client Info		10902	3920	10167
Oil Age	hrs	Client Info		875	1175	700
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	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	11	19	10
Chromium	ppm	ASTM D5185m	>4	1	2	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>9	1	2	4
Lead	ppm	ASTM D5185m	>30	<1	0	0
Copper	ppm	ASTM D5185m	>35	3	4	3
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	27	9	30
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	53	50	51
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	581	545	549
Calcium	ppm	ASTM D5185m	1510	1748	1518	1609
Phosphorus	ppm	ASTM D5185m	780	853	697	746
Zinc	ppm	ASTM D5185m	870	1059	944	924
Sulfur	ppm	ASTM D5185m	2040	3101	2394	2717
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	4	4	3
Sodium	ppm	ASTM D5185m		8	7	6
Potassium	ppm	ASTM D5185m	>20	9	3	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.8	10.8	8.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	21.9	19.2
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	17.0	16.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	7.3	△ 3.5	7.4



OIL ANALYSIS REPORT



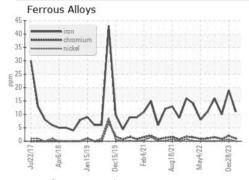


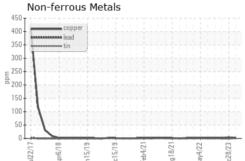


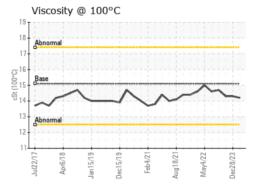
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

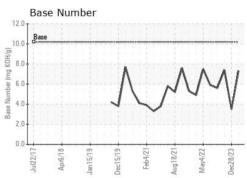
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.2	14.3	14.3

GRAPHS













Certificate 12367

Laboratory Sample No.

Lab Number : 06215661 Unique Number : 11088525

: GFL0124490 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Jun 2024

Tested : 21 Jun 2024 Diagnosed : 22 Jun 2024 - Don Baldridge

GFL Environmental - 006 - Wilmington

3618 US Highway 421 N Wilmington, NC

US 28401 Contact: Eric Wood eric.wood@gflenv.com T: (717)723-1956

* - 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) F: (910)762-6880