

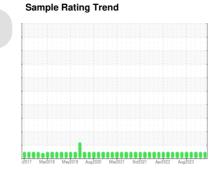
OIL ANALYSIS REPORT



(MM8729) FREIGHTLINER 10546C

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (9 GAL)





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.

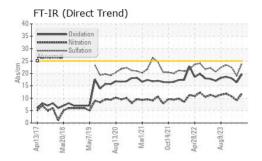
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0109647	GFL0087477	GFL0087460
Sample Date		Client Info		14 Jun 2024	19 Jan 2024	11 Oct 2023
3-	hrs	Client Info		9436	8585	8050
0	hrs	Client Info		1386	535	1177
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	NC	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	12	6	16
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
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	7	4	3
Lead	ppm	ASTM D5185m	>30	<1	0	<1
Copper	ppm	ASTM D5185m	>35	2	1	2
Tin	ppm	ASTM D5185m	>4	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	12	18	11
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	52	50	64
Manganese	ppm	ASTM D5185m	0	1	0	0
Magnesium	ppm	ASTM D5185m	560	586	601	631
Calcium	ppm	ASTM D5185m	1510	1647	1558	1736
Phosphorus	ppm	ASTM D5185m	780	722	810	765
Zinc	ppm	ASTM D5185m	870	984	1011	1092
Sulfur	ppm	ASTM D5185m	2040	2667	2579	2459
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	4	3	5
Sodium	ppm	ASTM D5185m		7	5	6
Potassium	ppm	ASTM D5185m	>20	5	2	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	11.9	9.1	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.1	19.0	22.5
FLUID DEGRAD	NOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.7	16.4	18.1

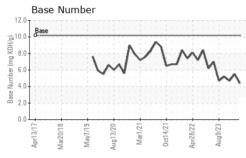
4.4

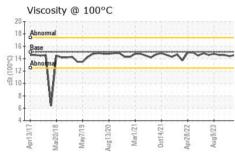
Base Number (BN) mg KOH/g ASTM D2896 10.2



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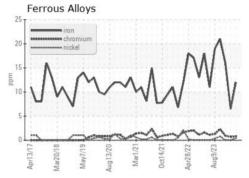


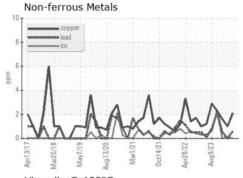


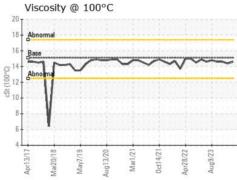
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	MODER	NONE
Sand/Dirt	scalar	*Visual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

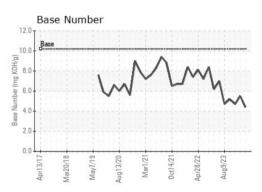
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.6	14.4	14.6

GRAPHS













Certificate 12367

Laboratory Sample No. Unique Number : 11084138

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0109647 Lab Number : 06211274

Test Package : FLEET

: 17 Jun 2024 Received **Tested** Diagnosed

: 18 Jun 2024 : 18 Jun 2024 - Wes Davis

GFL Environmental - 331 - Columbus

180 Ada Moore Rd Columbus, NC US 28722

Contact: Matt Segars matt.segars@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.

T: (800)207-6618 F: (252)617-2494 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)