

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 3749C Component

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (5 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

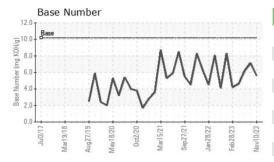
Fluid Condition

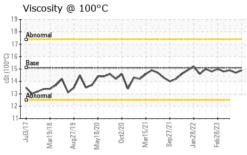
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

5 GAL)						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098111	GFL0088542	GFL0079605
Sample Date		Client Info		10 Nov 2023	13 Sep 2023	03 Aug 2023
Machine Age	hrs	Client Info		7504	7504	7504
Oil Age	hrs	Client Info		400	414	563
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	11	11	12
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	<1	0	0
Aluminum	ppm	ASTM D5185m	>9	2	<1	3
Lead	ppm	ASTM D5185m	>30	1	<1	0
Copper	ppm	ASTM D5185m	>35	<1	0	0
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	10	16	13
Barium	ppm	ASTM D5185m	5	<1	0	0
Molybdenum	ppm	ASTM D5185m	50	56	56	53
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	577	663	614
Calcium	ppm	ASTM D5185m	1510	1629	1807	1739
Phosphorus	ppm	ASTM D5185m	780	743	842	778
Zinc	ppm	ASTM D5185m	870	999	1039	1048
Sulfur	ppm	ASTM D5185m	2040	2524	3030	2984
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	4	8	4
Sodium	ppm	ASTM D5185m		2	6	14
Potassium	ppm	ASTM D5185m	>20	2	0	11
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.9	9.6	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	20.0	20.9
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.8	17.2	17.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	5.6	7.1	6.2
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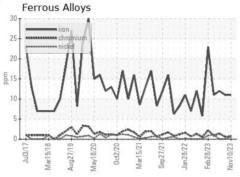


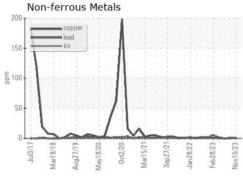


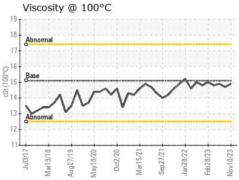
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

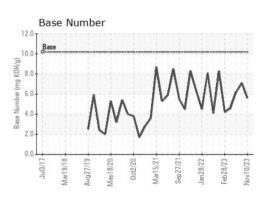
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.9	14.7	14.9

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10739140 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0098111 : 06005378

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

Received Diagnosed

: 13 Nov 2023 : 15 Nov 2023 Diagnostician : Wes Davis

GFL Environmental - 017 - Durham

148 Stone Park Court Durham, NC US 27703

Contact: Shane Parks shane.parks@gflenv.com T: (919)596-1363

* - 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)

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