

OIL ANALYSIS REPORT

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

JUEDZZ AUGOZZ OGZOZZ NOZDZZ FeBZDZ4 MIGZDZ4 ApZDZ4 MIGZDZ4 JUEDZ7-

Sample Rating Trend







Machine Id **934022** Component **Natural Gas Engine** Fluid

PETRO CANADA DURON GEO LD 15W40 (--- 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

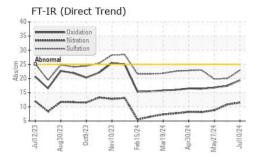
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

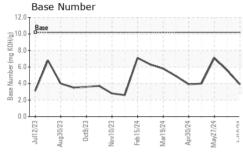
GEO LD 15W40 (- GAL)	Jul2023 Aug21	023 Oct2023 Nov2023	Feb 2024 Mar 2024 Apr 2024 May	024 Jul2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122846	GFL0122892	GFL0122841
Sample Date		Client Info		10 Jul 2024	14 Jun 2024	27 May 2024
Machine Age	hrs	Client Info		2906	2711	2560
Oil Age	hrs	Client Info		2586	2542	169
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	16	8	10
Chromium	ppm	ASTM D5185m	>5	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m	>5	<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	13	8	7
Lead	ppm	ASTM D5185m	>40	1	0	<1
Copper	ppm	ASTM D5185m	>150	4	2	3
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	5	11	24
Barium	ppm	ASTM D5185m	5	0	<1	<1
Molybdenum	ppm	ASTM D5185m	50	71	54	61
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	560	657	562	590
Calcium	ppm	ASTM D5185m	1510	1832	1547	1562
Phosphorus	ppm	ASTM D5185m	780	820	729	897
Zinc	ppm	ASTM D5185m	870	1091	924	968
Sulfur	ppm	ASTM D5185m	2040	2629	2743	2910
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	6	7
Sodium	ppm	ASTM D5185m		9	6	4
Potassium	ppm	ASTM D5185m	>20	14	10	14
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	11.5	10.8	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.9	20.0	19.8
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.4	17.4	16.8
Dogo Number (DNI)	1/011/			2.0		7.1

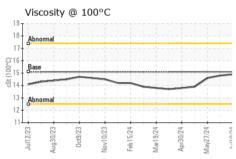
3.9

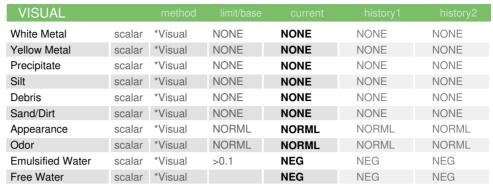


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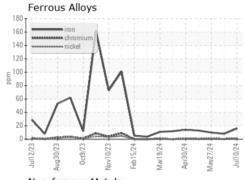


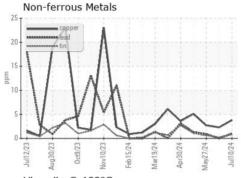


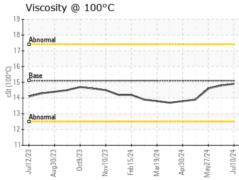


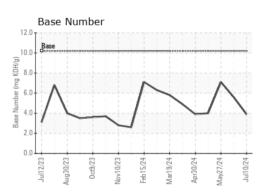
FLUID PROPI	EKIIES	method	ilmivbase		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.1	14.9	14.8	14.6

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06238705

: GFL0122846 Unique Number : 11127539 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Jul 2024 **Tested** : 17 Jul 2024

Diagnosed : 17 Jul 2024 - Wes Davis

GFL Environmental - 836 - Kansas City Hauling

7801 East Truman Road Kansas City, MO US 64126

Contact: Loyce Stewart loyce.stewart@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)

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