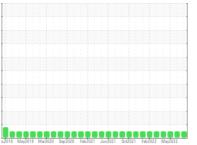


OIL ANALYSIS REPORT

SAMPLE INFORMATION method

Sample Rating Trend

NORMAL





Component Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (11 GAL)

DIAGNOSIS

Machine Id 10891C

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.

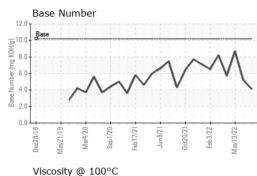
Fluid Condition

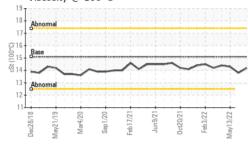
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sample Number Sample Date		Client Info Client Info		GFL0084250 19 May 2023	GFL0050829 17 Aug 2022	GFL0043316 13 May 2022
Machine Age	hrs	Client Info		12046	9939	9317
Oil Age	hrs	Client Info		12046	675	53
Oil Changed	1113	Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
•				-	-	-
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	11	14	4
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>9	0	2	1
Lead	ppm	ASTM D5185m	>30	<1	2	<1
Copper	ppm	ASTM D5185m	>35	<1	6	<1
Tin	ppm	ASTM D5185m	>4	<1	1	<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	7	21	51
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	61	50	46
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	560	601	520	534
Calcium	ppm	ASTM D5185m	1510	1616	1488	1595
Phosphorus	ppm	ASTM D5185m	780	725	643	765
Zinc	ppm	ASTM D5185m	870	1026	877	930
Sulfur	ppm	ASTM D5185m	2040	2747	2316	2240
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	6	25	3
Sodium	ppm	ASTM D5185m		48	8	4
Potassium	ppm	ASTM D5185m	>20	25	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	11.2	11.7	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	23.5	19.7
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	19.9	16.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	4.1	5.2	8.7

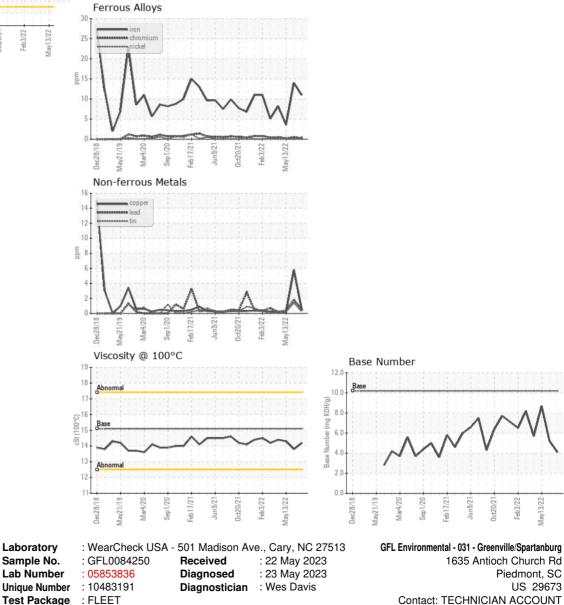


OIL ANALYSIS REPORT





VISUAL		method				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	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.2	13.8	14.3
GRAPHS						





* - 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)

Т:

F:

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