

OIL ANALYSIS REPORT

NORMAL





	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
	Sample Number		Client Info		GFL0088553	GFL0083315	GFL0083325
al to monitor.	Sample Date		Client Info		22 Aug 2023	22 May 2023	21 May 2023
	Machine Age	hrs	Client Info		12396	12396	0
ıl.	Oil Age	hrs	Client Info		577	236	0
	Oil Changed		Client Info		N/A	N/A	N/A
ination in the	Sample Status				NORMAL	NORMAL	NORMAL
	WEAR METAL	S	method	limit/base	current	history1	history2
suitable	Iron	ppm	ASTM D5185m	>50	5	2	4
ndition of the	Chromium	ppm	ASTM D5185m	>4	<1	0	0
	Nickel	ppm	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>9	1	0	0
	Lead	ppm	ASTM D5185m	>30	0	0	0
	Copper	ppm	ASTM D5185m	>35	<1	<1	<1
	Tin	ppm	ASTM D5185m	>4	0	0	0
	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	35	45	16
	Barium	ppm	ASTM D5185m	5	0	0	0
	Molybdenum	ppm	ASTM D5185m	50	50	49	55
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	560	552	564	799
	Calcium	ppm	ASTM D5185m	1510	1494	1631	1393
	Phosphorus	ppm	ASTM D5185m	780	765	759	920
	Zinc	ppm	ASTM D5185m	870	932	948	1159
	Sulfur	ppm	ASTM D5185m	2040	2675	2783	3308
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>+100	11	7	5
	Sodium	ppm	ASTM D5185m		3	4	4
	Potassium	ppm	ASTM D5185m	>20	2	2	4
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844		0	0	0
	Nitration	Abs/cm	*ASTM D7624	>20	6.9	6.3	7.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	19.0	18.1
	FLUID DEGRAI		method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	15.4	14.5
	Base Number (BN)	mg KOH/g	ASTM D2896	10.2	8.5	9.0	8.8
		0					

Machine Id 3513C

Component **Natural Gas Engine**

PETRO CANADA DURON GEO LD 15W40 (29 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamir oil.

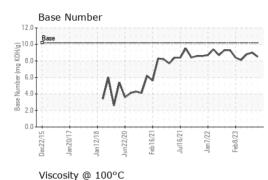
Fluid Condition

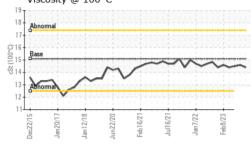
The BN result indicates that there is s alkalinity remaining in the oil. The con oil is suitable for further service.



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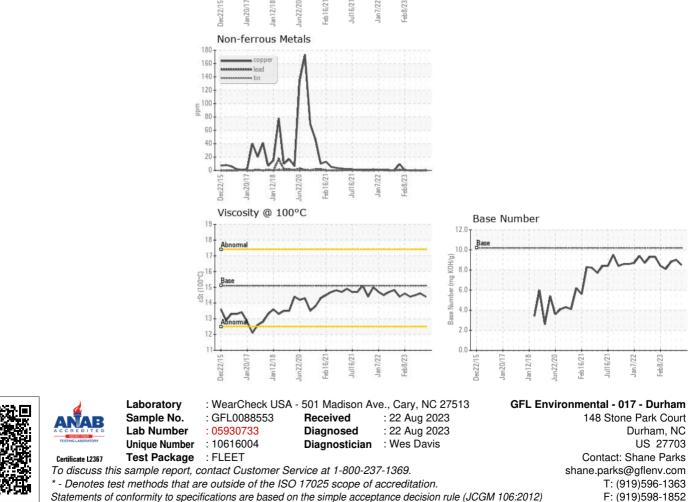
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ppm

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	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.4	14.6	14.5
GRAPHS						
Ferrous Alloys						
⁰⁰ T		111111				
iron						
50 - mickel						
00						
50						



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)