

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id 731122

Component
Natural Gas Engine

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.

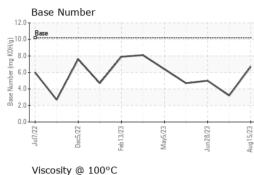
Fluid Condition

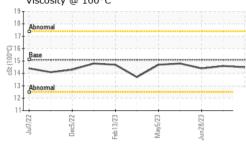
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0087200	GFL0087154	GFL0083763
Sample Date		Client Info		15 Aug 2023	20 Jul 2023	28 Jun 2023
Machine Age	hrs	Client Info		3553	3384	3222
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	14	24	6 1
Chromium	ppm	ASTM D5185m	>4	1	2	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	1
Titanium	ppm	ASTM D5185m		0	0	3
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	2	2
Lead	ppm	ASTM D5185m	>30	4	15	<1
Copper	ppm	ASTM D5185m	>35	1	3	18
Tin	ppm	ASTM D5185m	>4	<1	2	1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	26	5	10
Barium	ppm	ASTM D5185m	5	0	2	0
Molybdenum	ppm	ASTM D5185m	50	58	67	52
Manganese	ppm	ASTM D5185m	0	<1	1	6
Magnesium	ppm	ASTM D5185m	560	645	626	682
Calcium	ppm	ASTM D5185m	1510	1872	1890	1307
Phosphorus	ppm	ASTM D5185m	780	888	788	613
Zinc	ppm	ASTM D5185m	870	1086	1073	867
Sulfur	ppm	ASTM D5185m	2040	3020	2690	2534
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	6	0	43
Sodium	ppm	ASTM D5185m		7	8	7
Potassium	ppm	ASTM D5185m	>20	0	2	9
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.6	12.7	11.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	26.5	23.6
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	22.8	19.2
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	6.7	3.2	5.0
	99				-	

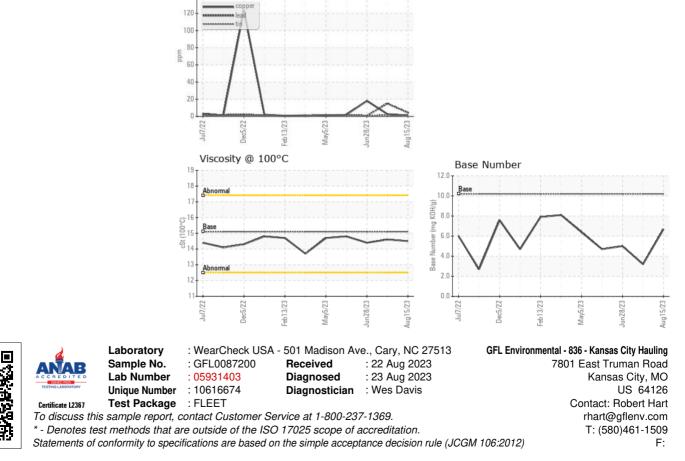


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.5	14.6	14.4
GRAPHS						
Ferrous Alloys						
T						
iron						
0 - nickel						
0		$/ \rangle$				
0+ 0+		/				
1						
			1			
	53	23	23			
Jul7/22 Dec5/22	May5/23	Jun28/23	Aug15/23			
Non-ferrous Meta		<u>ت</u>	A			
	15					



Contact/Location: See also GFL823, 834, 837, 840 - Robert Hart - GFL836