

OIL ANALYSIS REPORT

Sample Rating Trend

COOL CHEMICALS

949010-205269

Component Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: PMB was done on the 03/05/24)

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. Test for glycol is negative.

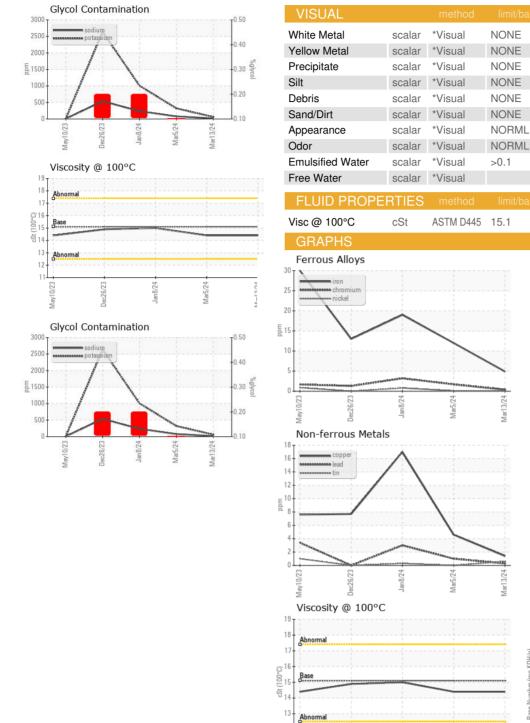
Fluid Condition

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

(GAL)		May2023	Dec2023	Jan2024 Mar2024	Mar2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0114420	GFL0114483	GFL0100551
Sample Date		Client Info		13 Mar 2024	05 Mar 2024	08 Jan 2024
Machine Age	mls	Client Info		215213	14926	14513
Oil Age	mls	Client Info		0	600	14513
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ATTENTION	SEVERE	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	5	12	19
Chromium	ppm	ASTM D5185m	>4	<1	2	3
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>9	3	2	3
Lead	ppm	ASTM D5185m	>30	<1	1	3
Copper	ppm	ASTM D5185m	>35	1	5	17
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	38	14	37
Barium	ppm	ASTM D5185m	5	2	0	0
Molybdenum	ppm	ASTM D5185m	50	53	73	162
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	560	527	621	565
Calcium	ppm	ASTM D5185m	1510	1581	1553	1546
Phosphorus	ppm	ASTM D5185m	780	725	846	884
Zinc	ppm	ASTM D5185m	870	942	997	1064
Sulfur	ppm	ASTM D5185m	2040	2716	3110	2607
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	4	7	13
Sodium	ppm	ASTM D5185m		17	1 79	A 235
Potassium	ppm	ASTM D5185m	>20	61	A 321	1 008
Glycol	%	*ASTM D2982			▲ 0.10	▲ 0.20
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.6	8.6	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	20.1	18.5
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	16.7	16.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	8.6	7.9	15.3



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Laboratory

Sample No.

Lab Number : 06125408

Unique Number : 10939559

Test Package : FLEET

May10/23

: GFL0114420

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

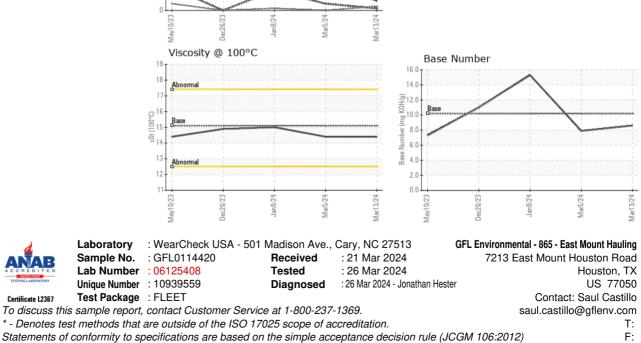
Dec26/23

Jan 8/24

Received

Diagnosed

Tested



Mar13/24

Mar5/24

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

14.4

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

15.0

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

14.4

Certificate L2367

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Submitted By: TECHNICIAN ACCOUNT