

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL





Machine Id 811062 Component **Diesel Engine**

PETRO CANADA DURO

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

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.

N SHP 15W40 (CALV					V
SAMPLE INFOR		method	limit/base	Sep2023 Current	history1	history2
Sample Number		Client Info		GFL0084003		
Sample Date		Client Info		11 Sep 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINA	TION	method	limit/base	current	history1	history2
- -uel		WC Method	>3.0	<1.0		
Glycol		WC Method		NEG		
WEAR META	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	24		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>5	<1		
Fitanium -	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>20	3		
_ead	ppm	ASTM D5185m	>40	1		
Copper	ppm	ASTM D5185m	>330	2		
 Γin	ppm	ASTM D5185m	>15	1		
/anadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	65		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	1010	1044		
Calcium	ppm	ASTM D5185m	1070	1203		
Phosphorus	ppm	ASTM D5185m	1150	992		
Zinc	ppm	ASTM D5185m	1270	1343		
Sulfur	ppm	ASTM D5185m	2060	2842		
CONTAMINAL	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	<1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	1		
Nitration	Abs/cm	*ASTM D7624	>20	9.9		
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4		

FLUID DEGRADATION method limit/base

Base Number (BN) mg KOH/g ASTM D2896 9.8

Abs/.1mm *ASTM D7414 >25

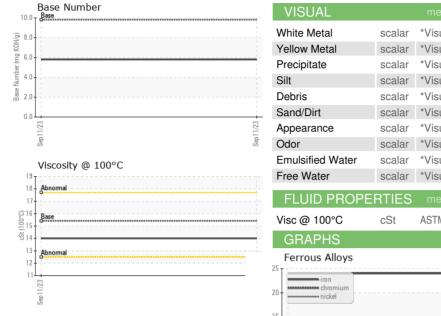
Oxidation

16.7

5.8

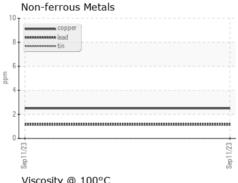


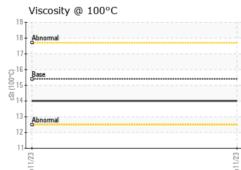
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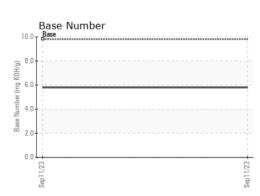


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0		

0









Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10647040

: 05951081 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0084003

Received : 14 Sep 2023 Diagnosed : 16 Sep 2023 Diagnostician : Wes Davis

GFL Environmental - 401 - Fort Wayne Hauling 4429 ALLEN MARTIN DR FORT WAYNE, IN

Contact: Zachory Roehm zroehm@gflenv.com T:

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)

US 46806

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