

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id 714065 Component **Diesel Engine**

PETRO CANADA DUR

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

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 (GAL)	Sej	2023	Oct2023 Oct20	23	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0096525	GFL0096575	GFL002756
Sample Date		Client Info		30 Oct 2023	13 Oct 2023	19 Sep 2023
Machine Age	hrs	Client Info		744	635	444
Oil Age	hrs	Client Info		400	600	600
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	SEVERE
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	0.3	9.1
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	8	41	27
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	3	7	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	3	16	2
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	64	295	<1
Tin	ppm	ASTM D5185m	>15	<1	3	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	26	▲ 187	0
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	60	67	123	47
Manganese	ppm	ASTM D5185m	0	<1	4	0
Magnesium	ppm	ASTM D5185m	1010	935	708	774
Calcium	ppm	ASTM D5185m	1070	1138	1439	920
Phosphorus	ppm	ASTM D5185m	1150	1046	△ 709	852
Zinc	ppm	ASTM D5185m	1270	1258	▲ 876	1094
Sulfur	ppm	ASTM D5185m	2060	3193	2526	2845
CONTAMINAL	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	15	▲ 84	7
Sodium	ppm	ASTM D5185m		2	3	9
Potassium	ppm	ASTM D5185m	>20	6	33	7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.1	0.4	0.6
Nitration	Abs/cm	*ASTM D7624	>20	5.6	9.9	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	23.2	20.3
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
0 ' 1 '	A1 . / /	*****	0.5	44.6	00.6	10.0

Oxidation

Abs/.1mm *ASTM D7414 >25

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

14.4

8.9

20.9

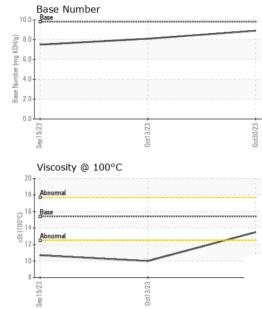
8.1

16.8

7.5



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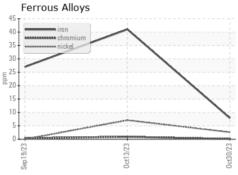


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2

13.5

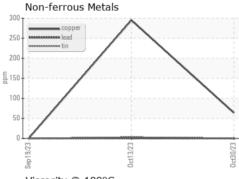
10.0

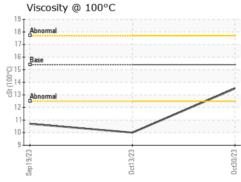
Visc @	100°C
GRA	PHS

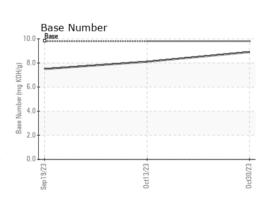


cSt

ASTM D445 15.4











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10726964 Test Package : FLEET

: GFL0096525 : 05998604

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Nov 2023 Diagnosed : 06 Nov 2023 Diagnostician : Wes Davis

GFL Environmental - 465 - Pontiac 888 Baldwin

Pontiac, MI US 48340 Contact: Ricky Matthews rickymathews@gflenv.com T: (586)825-9514

10.7

* - 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)