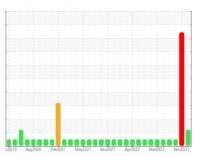


OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL



Machine Id 10978 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (5 GAL)

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

Sodium and/or potassium levels remain elevated. Test for glycol is negative.

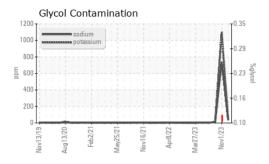
Fluid Condition

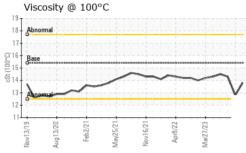
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

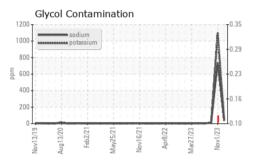
AL)		ry2019 Aug2	020 Feb2021 May202	Nov2021 Apr2022 Mar202	3 Nov2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0088504	GFL0098101	GFL0088572
Sample Date		Client Info		04 Jan 2024	01 Nov 2023	17 Jul 2023
Machine Age	hrs	Client Info		1432	1432	1432
Oil Age	hrs	Client Info		300	530	140
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	SEVERE	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	8	32	9
Chromium	ppm	ASTM D5185m	>5	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		2	5	2
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m		2	19	<1
Tin	ppm	ASTM D5185m	>4	- <1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	17	6
Barium	ppm	ASTM D5185m	0	0	<1	1
Molybdenum	ppm	ASTM D5185m	60	58	86	60
Manganese	ppm	ASTM D5185m	0	<1	2	<1
Magnesium	ppm	ASTM D5185m	1010	910	877	997
Calcium	ppm	ASTM D5185m	1070	1028	1277	1229
Phosphorus	ppm	ASTM D5185m	1150	1003	931	1064
Zinc	ppm	ASTM D5185m	1270	1223	1251	1364
Sulfur	ppm	ASTM D5185m	2060	2921	3465	3860
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	19	5
Sodium	ppm	ASTM D5185m		35	▲ 739	13
Potassium	ppm	ASTM D5185m	>20	▲ 57	<u> </u>	10
Glycol	%	*ASTM D2982		NEG	0.12	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.5	0.9	0.6
Nitration	Abs/cm	*ASTM D7624		7.0	11.7	6.8
Sulfation	Abs/.1mm	*ASTM D7415		19.2	22.2	19.1
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	16.2	14.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.8	9.5	8.9
Dago (Marridor (DIN)	my Rong	7.0 TWI D2000	5.0	0.0	0.0	0.0

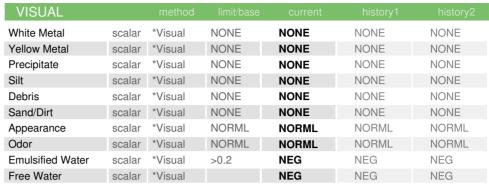


OIL ANALYSIS REPORT





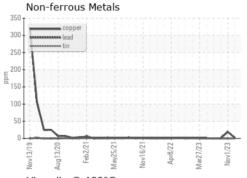


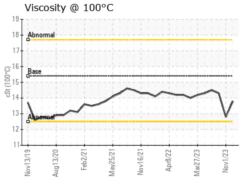


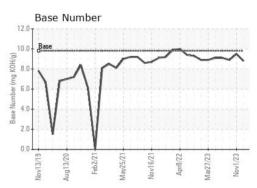
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	12.8	14.3

GRAPHS

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30-	M	/				٨	٨
		IV	V	W	W	1	//
10-					٧		~











Laboratory Sample No. Lab Number **Unique Number**

: GFL0088504 : 06051400 : 10817349

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 04 Jan 2024 Recieved : 08 Jan 2024 Diagnosed : Jonathan Hester

Diagnostician

Test Package : FLEET Certificate L2367 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)

GFL Environmental - 017 - Durham

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Contact: Shane Parks shane.parks@gflenv.com

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