

OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL



Machine Id 12036 Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (32 QTS)

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high.

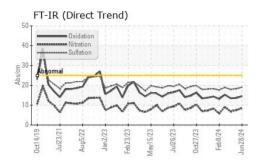
▲ Fluid Condition

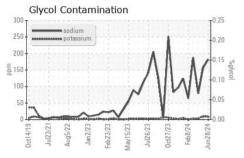
The BN result indicates that there is suitable alkalinity remaining in the oil.

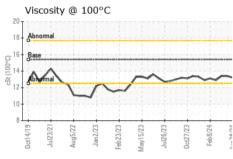
QTS)		#2019 Jul2021	Aug2022 Jan2023 Feb20	123 May2023 Jul2023 Oct2023 Fe	b2024 Jun20	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0111446	GFL0111423	GFL0111414
Sample Date		Client Info		28 Jun 2024	05 Jun 2024	20 May 2024
Machine Age	hrs	Client Info		14867	14766	14668
Oil Age	hrs	Client Info		535	434	336
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	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	19	16	8
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>15	5	5	2
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>100	2	1	<1
Tin	ppm	ASTM D5185m	>4	0	<1	0
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	4	3	1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	62	61
Manganese	ppm	ASTM D5185m	0	0	<1	0
Magnesium	ppm	ASTM D5185m	1010	880	883	1011
Calcium	ppm	ASTM D5185m	1070	978	984	1091
Phosphorus	ppm	ASTM D5185m	1150	964	923	1068
Zinc	ppm	ASTM D5185m	1270	1169	1159	1343
Sulfur	ppm	ASTM D5185m	2060	2675	3186	3774
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	7	4
Sodium	ppm	ASTM D5185m		<u> </u>	157	79
Potassium	ppm	ASTM D5185m	>20	9	10	3
Glycol	%	*ASTM D2982		NEG	0.0	NEG
INFRA-RED		method	limit/base	current	history1	history2
INTERCED						
Soot %	%	*ASTM D7844	>6	0.4	0.4	0.3
	% Abs/cm	*ASTM D7844 *ASTM D7624	>6 >20	0.4 8.5	0.4 7.5	0.3 6.8
Soot %						
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7624	>20	8.5	7.5	6.8
Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30	8.5 19.0	7.5 18.3	6.8 17.9
Soot % Nitration Sulfation FLUID DEGRAL	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415 method	>20 >30 limit/base	8.5 19.0 current	7.5 18.3 history1	6.8 17.9 history2

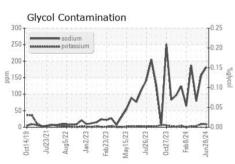


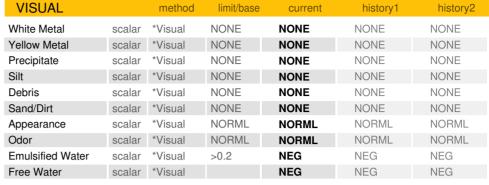
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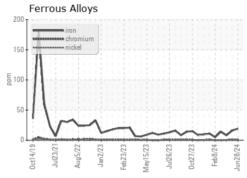


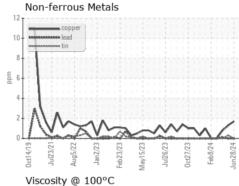


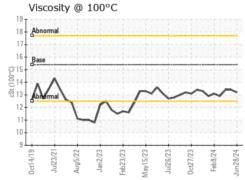


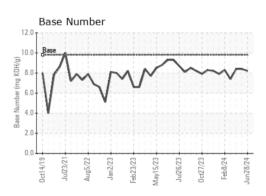
FLUID PROP	EKI1E2	method	ilmit/base	current	nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.4	13.4

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0111446 Lab Number : 06227073

Unique Number : 11110566

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

: 03 Jul 2024 **Tested** : 05 Jul 2024 Diagnosed

: 05 Jul 2024 - Jonathan Hester

Warner Robins, GA

GFL Environmental - 073 - Warner Robins - Transwaste

US 31093 Contact: JOSH MALONEY jmaloney@gflenv.com

Test Package : FLEET (Additional Tests: Glycol) To discuss this sample report, contact Customer Service at 1-800-237-1369. st - 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)

Report Id: GFL073 [WUSCAR] 06227073 (Generated: 07/09/2024 14:18:02) Rev: 1

Submitted By: JOSH MALONEY

T:

F:

155 Story Road