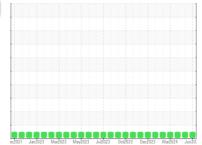


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id **429032-402478**Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

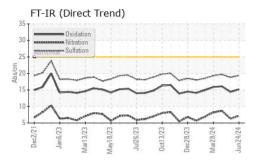
Fluid Condition

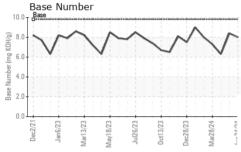
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

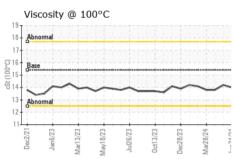
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122997	GFL0123029	GFL0119414
Sample Date		Client Info		24 Jun 2024	31 May 2024	01 May 2024
Machine Age	hrs	Client Info		13712	13561	13392
Oil Age	hrs	Client Info		151	169	155
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	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
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	3	2	7
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	<1	4	3
Lead	ppm	ASTM D5185m	>40	0	<1	2
Copper	ppm	ASTM D5185m	>330	<1	<1	3
Tin	ppm	ASTM D5185m	>15	0	<1	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	2
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	12	2
Barium	ppm	ASTM D5185m	0	0	1	0
Molybdenum	ppm	ASTM D5185m	60	61	64	57
Manganese	ppm	ASTM D5185m	0	0	0	1
Magnesium	ppm	ASTM D5185m	1010	974	950	1034
Calcium	ppm	ASTM D5185m	1070	1154	1108	1155
Phosphorus	ppm	ASTM D5185m	1150	1019	1004	1088
Zinc	ppm	ASTM D5185m	1270	1229	1242	1314
Sulfur	ppm	ASTM D5185m	2060	3383	3346	3421
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm		>25	3	4	5
Sodium	ppm	ASTM D5185m		6	0	5
Potassium	ppm	ASTM D5185m	>20	<1	2	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.2	6.3	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	18.8	19.7
					11.	111
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
FLUID DEGRAD	Abs/.1mm	method *ASTM D7414	limit/base >25	15.2	14.4	16.1



OIL ANALYSIS REPORT



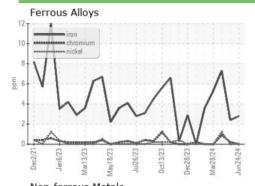


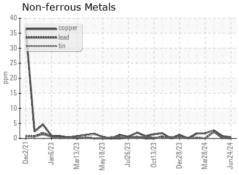


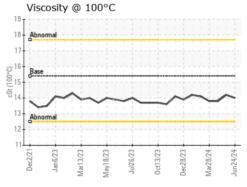
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

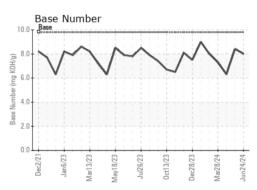
FLUID PROPI	EKIIES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.2	13.8

GRAPHS













Laboratory Sample No. Unique Number : 11123143

: GFL0122997 Lab Number : 06234309

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

: 11 Jul 2024 **Tested** : 12 Jul 2024 Diagnosed : 12 Jul 2024 - Wes Davis

GFL Environmental - 814 - Little Rock Hauling 4005 Hwy 161 N.

Little Rock, AR US 72117

Contact: Brad Koenig bkoenig@gflenv.com T:

Test Package : FLEET Certificate 12367 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)

Report Id: GFL814 [WUSCAR] 06234309 (Generated: 07/12/2024 15:43:42) Rev: 1

Submitted By: Nicole Walls

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