

OIL ANALYSIS REPORT

Sample Rating Trend

Newdozz Deadozz

NORMAL



Machine Id 925049-370

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

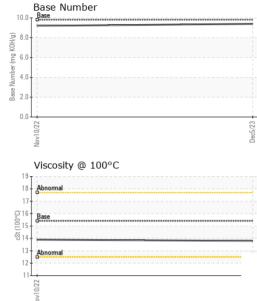
Fluid Condition

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

AL)			Nov2022	Dec2023		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0100431	GFL0045411	
Sample Date		Client Info		05 Dec 2023	10 Nov 2022	
Machine Age	hrs	Client Info		10510	98806	
Dil Age	hrs	Client Info		0	98806	
Oil Changed		Client Info		N/A	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
- uel		WC Method	>5	<1.0	<1.0	
Nater		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	27	16	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	
Γitanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>3	0	2	
Aluminum	ppm	ASTM D5185m	>20	4	2	
_ead	ppm	ASTM D5185m	>40	0	<1	
Copper	ppm	ASTM D5185m	>330	2	31	
Γin	ppm	ASTM D5185m	>15	0	<1	
/anadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	36	104	
Barium	ppm	ASTM D5185m	0	<1	0	
Molybdenum	ppm	ASTM D5185m	60	52	71	
Manganese	ppm	ASTM D5185m		2	<1	
Magnesium	ppm	ASTM D5185m	1010	849	781	
Calcium	ppm	ASTM D5185m	1070	1172	1278	
Phosphorus	ppm	ASTM D5185m	1150	799	932	
Zinc	ppm	ASTM D5185m	1270	985	1120	
Sulfur	ppm	ASTM D5185m	2060	2679	3602	
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	5	
Sodium	ppm	ASTM D5185m		8	6	
Potassium	ppm	ASTM D5185m	>20	0	4	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	7.5	8.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	22.0	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
FLUID DEGRA Oxidation	DATION Abs/.1mm	method *ASTM D7414	limit/base	current 16.3	history1	history2



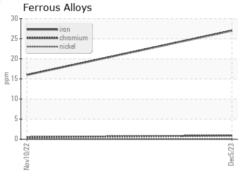
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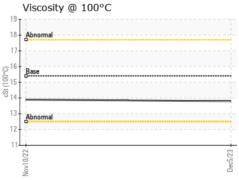
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

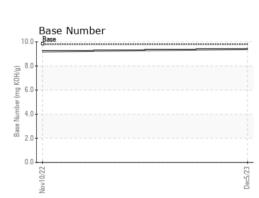
FLUID PROPI	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.9	

GRAPHS



Non-ferrous Metals	
35	
30 - seeseesees lead	
25 -	
g 20	
15	
10	
5 +	
0	
1/22	/23
Nov10/22	Dec5/23
ž	
Viscosity @ 100°C	









Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10779999

: GFL0100431 : 06030208 Test Package : FLEET

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

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

: 11 Dec 2023 : 12 Dec 2023 Diagnostician : Wes Davis

GFL Environmental - 868 - Childersburg Fines Hauling (Alpine) 13737 Plant Rd

Childersburg, AL US 35044

Contact: JONATHAN WILLIAMS jonathan.williams@gflenv.com

* - 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)

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