

OIL ANALYSIS REPORT

DODT

Nev2023 Dev2023 Feb2024 Mar2024 Apr2024 May2024

Sample Rating Trend

NORMAL



(58C686) 814050

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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.

QTS)		Nov2023	Dec2023 Feb2024	Mar2024 Apr2024	May2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117942	GFL0117932	GFL0117952
Sample Date		Client Info		28 May 2024	16 May 2024	26 Apr 2024
Machine Age	hrs	Client Info		1617	1533	1433
Oil Age	hrs	Client Info		588	504	404
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	14	11	9
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	21	15	12
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	1	<1	2
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	0	2
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	60	66	62	59
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	948	1035	910
Calcium	ppm	ASTM D5185m	1070	1140	1154	1097
Phosphorus	ppm	ASTM D5185m	1150	1044	1067	1084
Zinc	ppm	ASTM D5185m	1270	1219	1313	1240
Sulfur	ppm	ASTM D5185m	2060	3405	3729	3301
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	7
Sodium	ppm	ASTM D5185m	00	6	5	4
Potassium	ppm	ASTM D5185m	>20	51	37	24
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.0	7.7	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	18.5	18.6
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	15.2	14.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.7	7.7	8.6



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: GFL0117942 Lab Number : 06194772

13 Abnormal

12

Unique Number : 11056895 Test Package : FLEET

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

Received : 29 May 2024 **Tested** : 30 May 2024

Diagnosed : 30 May 2024 - Wes Davis

Base

0.0

Feb1/24

1910 S CHICKASAW STREET Pauls Valley, OK US 73075

GFL Environmental - 892 - Pauls Valley Hauling

NONE

NONE

NONE

NONE

LIGHT

NONE

NORML

NORML

NEG

NEG

13.8

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

13.6

Contact: Tony Graham tgraham2@wcamerica.com T:

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)

Feb1/24

Contact/Location: Tony Graham - GFL892

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