

OIL ANALYSIS REPORT

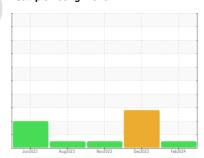
Sample Rating Trend

NORMAL



Machine Id 913128 Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (28 GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

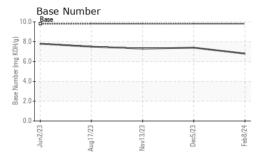
Fluid Condition

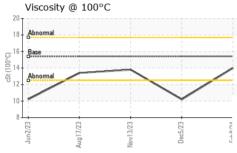
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

N SHP 15W40 (2	,	Jun2023	Aug2023	Nov2023 Dec2023	Feb2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0109013	GFL0096883	GFL009170
Sample Date		Client Info		08 Feb 2024	05 Dec 2023	13 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		600	0	600
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINAT	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	0.3	<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	>120	20	43	23
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	3	<u>12</u>	4
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	<1	1	<1
Aluminum	ppm	ASTM D5185m	>20	1	4	2
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	17	89	14
Tin	ppm	ASTM D5185m	>15	<1	2	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	194	2
Barium	ppm	ASTM D5185m	0	0	3	2
Molybdenum	ppm	ASTM D5185m	60	64	120	60
Manganese	ppm	ASTM D5185m	0	0	4	<1
Magnesium	ppm	ASTM D5185m	1010	965	680	917
Calcium	ppm	ASTM D5185m	1070	1069	1448	1098
Phosphorus	ppm	ASTM D5185m	1150	949	658	914
Zinc	ppm	ASTM D5185m	1270	1210	854	1197
Sulfur	ppm	ASTM D5185m	2060	2758	2526	3827
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	A 86	5
Sodium	ppm	ASTM D5185m		0	2	0
Potassium	ppm	ASTM D5185m	>20	3	8	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.7	0.6	0.7
Nitration	Abs/cm	*ASTM D7624	>20	8.9	10.0	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	24.3	20.2
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
		*****	0.5	450	00.0	4 - 7
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	22.2	15.7



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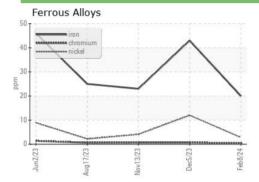


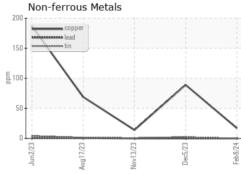


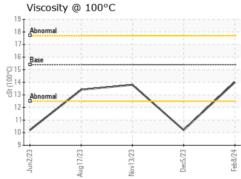
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

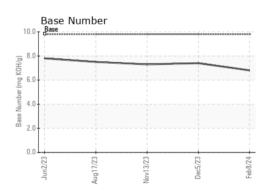
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	▲ 10.2	13.8

GRAPHS











Certificate L2367

Laboratory Sample No.

Lab Number : 06087047 Unique Number : 10874492

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0109013 Received : 13 Feb 2024 **Tested**

: 14 Feb 2024 Diagnosed : 14 Feb 2024 - Wes Davis

GFL Environmental - 401 - Fort Wayne Hauling

4429 ALLEN MARTIN DR FORT WAYNE, IN US 46806

T: (260)747-5037

Contact: Stephanie Burton stephanieburton@gflenv.com

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: GFL401 [WUSCAR] 06087047 (Generated: 02/14/2024 11:42:22) Rev: 1

Submitted By: See also GFL401 - ZACHORY ROEHM

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