

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



(NL2920) Machine Id 910000

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (10 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

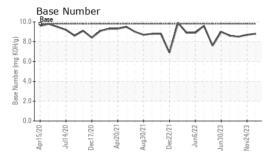
Fluid Condition

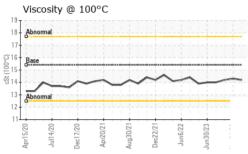
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090128	GFL0075180	GFL0075176
Sample Date		Client Info		25 Jan 2024	24 Nov 2023	29 Sep 2023
Machine Age	hrs	Client Info		10578	9907	9676
Oil Age	hrs	Client Info		10578	9907	9676
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	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
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>165	16	10	6
Chromium	ppm	ASTM D5185m	>5	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	3
Lead	ppm	ASTM D5185m	>150	<1	0	0
Copper	ppm	ASTM D5185m	>90	<1	<1	<1
Tin	ppm	ASTM D5185m	>5	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	1	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	60	62
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	917	973	1056
Calcium	ppm	ASTM D5185m	1070	1049	1110	1144
Phosphorus	ppm	ASTM D5185m	1150	986	1054	1175
Zinc	ppm	ASTM D5185m	1270	1170	1283	1468
Sulfur	ppm	ASTM D5185m	2060	2594	3099	3655
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	2	3	2
Sodium	ppm	ASTM D5185m		4	16	3
Potassium	ppm	ASTM D5185m	>20	2	4	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.9	0.8	0.5
Nitration	Abs/cm	*ASTM D7624	>20	8.0	7.8	6.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	19.3	17.9
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	14.3	13.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.8	8.7	8.5



OIL ANALYSIS REPORT

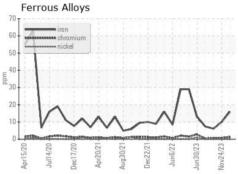


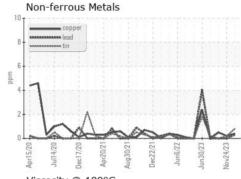


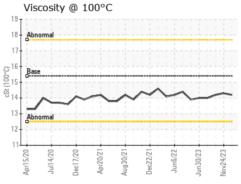
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

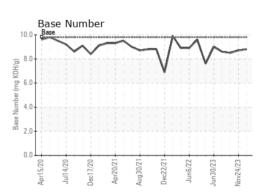
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.3	14.2

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0090128 : 06071469

: 10848146 Test Package : FLEET

Recieved : 26 Jan 2024 Diagnosed

Diagnostician : Wes Davis

: 26 Jan 2024

657 Old US 17 Elizabeth City, NC US 27909

GFL Environmental - 044 - Elizabeth City

Contact: TOM BAIRD tom.baird@gflenv.com

T: (252)562-2645 F: (252)264-4411

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: GFL044 [WUSCAR] 06071469 (Generated: 01/26/2024 18:16:14) Rev: 1

Submitted By: TOM BAIRD