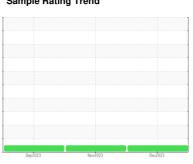


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id **912103** Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (36 QTS)

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

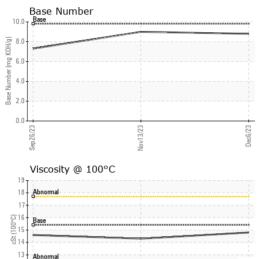
Fluid Condition

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 (3	6 QTS)	Sej	2023	Nov2023 Dec20	23	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0059159	GFL0059256	GFL0084968
Sample Date		Client Info		06 Dec 2023	13 Nov 2023	26 Sep 2023
Machine Age	hrs	Client Info		7356	7356	7356
Oil Age	hrs	Client Info		7356	7356	7356
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
- uel		WC Method	>3.0	<1.0	<1.0	<1.0
Nater		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	26	6	40
Chromium	ppm	ASTM D5185m	>20	1	<1	2
Nickel	ppm	ASTM D5185m	>5	0	0	1
Γitanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	6
ead	ppm	ASTM D5185m	>40	3	0	2
Copper	ppm	ASTM D5185m	>330	<1	0	1
- īin	ppm	ASTM D5185m	>15	0	<1	1
/anadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	2	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	57	61
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1060	953	939
Calcium	ppm	ASTM D5185m	1070	1132	1058	1080
Phosphorus	ppm	ASTM D5185m	1150	1107	1070	1040
Zinc	ppm	ASTM D5185m	1270	1322	1290	1288
Sulfur	ppm	ASTM D5185m	2060	3154	3150	2984
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	4	12
Sodium	ppm	ASTM D5185m		3	2	31
Potassium	ppm	ASTM D5185m	>20	1	0	15
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.4	0.4	1.7
Nitration	Abs/cm	*ASTM D7624	>20	9.7	6.6	12.9
VIII GUOTI						0.4.4
	Abs/.1mm	*ASTM D7415	>30	20.9	18.9	24.1
			>30 limit/base	20.9 current	18.9 history1	24.1 history2
Sulfation						



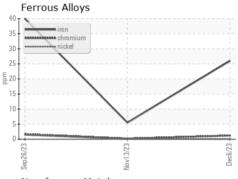
OIL ANALYSIS REPORT

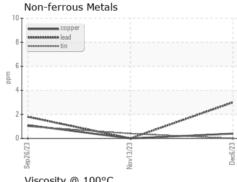


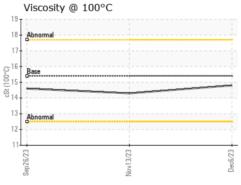
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

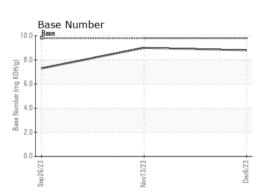
FLUID PROPE	ERITES	method			riistory i	HIStoryZ
Visc @ 100°C	cSt	ASTM D445	15.4	14.8	14.3	14.6

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10782930 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0059159 : 06033139

Received Diagnosed Diagnostician : Wes Davis

: 13 Dec 2023 : 14 Dec 2023

GFL Environmental - 410 - Michigan West

39000 Van Born Rd Wayne, MI US 48184

Contact: Tony Esquina tesquina@gflenv.com

T: F:

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: GFL410 [WUSCAR] 06033139 (Generated: 12/14/2023 11:54:43) Rev: 1

Submitted By: Belal Dgheish