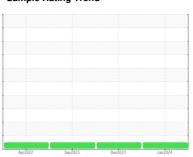


OIL ANALYSIS REPORT

Sample Rating Trend









1101M **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (36 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

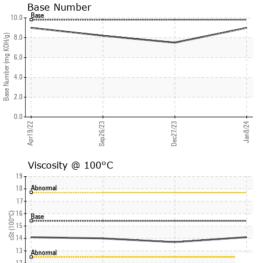
Fluid Condition

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 (3	66 GAL)	Apr202	2 Sep 2023	Dec2023 J	an 2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0110011	GFL0104313	GFL008498
Sample Date		Client Info		08 Jan 2024	27 Dec 2023	26 Sep 2023
Machine Age	mls	Client Info		293969	292402	282386
Oil Age	mls	Client Info		293969	292402	282386
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	TION	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
ron	ppm	ASTM D5185m	>200	11	13	23
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	10	<1	2
Lead	ppm	ASTM D5185m	>30	0	0	3
Copper	ppm	ASTM D5185m	>30	3	3	3
Tin	ppm	ASTM D5185m	>15	0	<1	<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	<1	1	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	54	59	71
Manganese	ppm	ASTM D5185m	0	0	<1	1
Magnesium	ppm	ASTM D5185m	1010	928	974	1140
Calcium	ppm	ASTM D5185m	1070	1005	1120	1272
Phosphorus	ppm	ASTM D5185m	1150	952	1013	1181
Zinc	ppm	ASTM D5185m	1270	1266	1252	1446
Sulfur	ppm	ASTM D5185m	2060	2964	2909	3329
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	10	4	8
Sodium	ppm	ASTM D5185m		1	3	6
0 - 1 1	nnm	ASTM D5185m	>20	11	2	2
Potassium	ppm					
INFRA-RED	ррпп	method	limit/base	current	history1	history2
	%		limit/base	current 0.2	history1	history2
INFRA-RED		method				
INFRA-RED Soot %	%	method *ASTM D7844	>3	0.2	0.5	1.3
INFRA-RED Soot % Nitration	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	>3 >20	0.2 5.3	0.5 8.1	1.3 13.5 23.9
INFRA-RED Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	>3 >20 >30	0.2 5.3 18.2	0.5 8.1 19.4	13.5



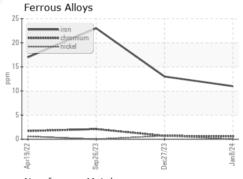
OIL ANALYSIS REPORT

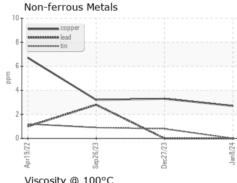


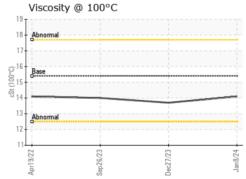
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

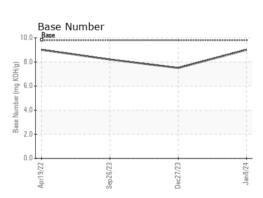
L LOID PROPI	EHILO	method			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	13.7	14.0

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10829152 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0110011 : 06057770

Recieved : 11 Jan 2024 Diagnosed : 12 Jan 2024 Diagnostician : Wes Davis

GFL Environmental - 410 - Michigan West 39000 Van Born Rd

Wayne, MI US 48184 Contact: Belal Dgheish bdgheish@gflenv.com

T: (734)714-2340

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)