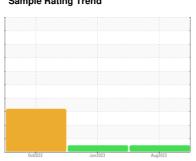


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **427113-490**

Component **Diesel Engine**

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

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

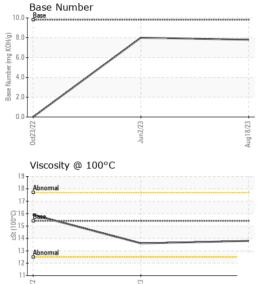
Fluid Condition

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

LTR) Octob22 Junto23 Augto23						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0066132	GFL0060338	GFL0055736
Sample Date		Client Info		18 Aug 2023	02 Jun 2023	23 Oct 2022
Machine Age	hrs	Client Info		17012	16476	366294
Oil Age	hrs	Client Info		600	500	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>2.0	<1.0	<1.0	0.3
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	21	35	<u> </u>
Chromium	ppm	ASTM D5185m	>20	2	2	5
Nickel	ppm	ASTM D5185m	>4	1	3	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	3	3	4
Lead	ppm	ASTM D5185m	>40	1	4	18
Copper	ppm	ASTM D5185m	>330	4	13	3
Tin	ppm	ASTM D5185m	>15	1	3	2
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	8	9	8
Barium	ppm	ASTM D5185m	0	1	17	0
Molybdenum	ppm	ASTM D5185m	60	63	59	51
Manganese	ppm	ASTM D5185m	0	1	4	2
Magnesium	ppm	ASTM D5185m	1010	998	970	682
Calcium	ppm	ASTM D5185m	1070	1142	1134	1335
Phosphorus	ppm	ASTM D5185m	1150	1067	994	906
Zinc	ppm	ASTM D5185m	1270	1319	1235	1117
Sulfur	ppm	ASTM D5185m	2060	3952	3722	3227
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	13	36	16
Sodium	ppm	ASTM D5185m		5	6	5
Potassium	ppm	ASTM D5185m	>20	5	6	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	<u>4</u>
Nitration	Abs/cm	*ASTM D7624	>20	7.6	7.1	14.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	19.1	▲ 33.8
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	15.2	23
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 9.8	14.4 7.8	15.2 8.0	23 • 0.0



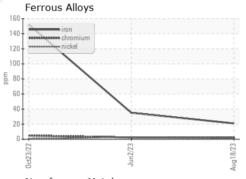
OIL ANALYSIS REPORT

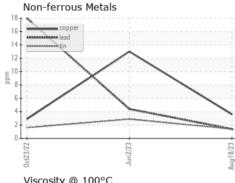


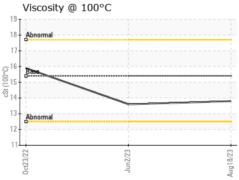
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

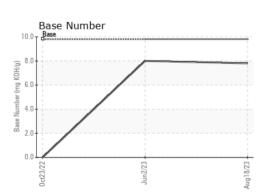
FLUID PROPI	ERIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.6	15.9

GRAPHS













Laboratory Sample No. Lab Number Unique Number : 10628696

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0066132 : 05938084

Diagnosed

Received : 30 Aug 2023 : 30 Aug 2023 Diagnostician : Wes Davis

GFL Environmental - 904A - Thorpe N14985 Tieman Ave

Thorp, WI US 54771 Contact: Andy Kane akane@gflenv.com T: (715)202-3420

Test Package : FLEET Certificate L2367 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)