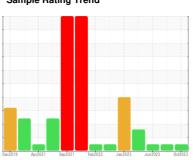


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **2393** Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (8 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

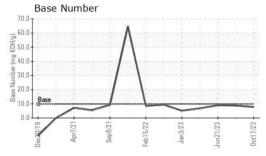
Fluid Condition

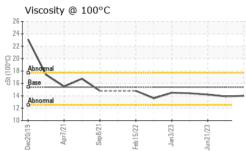
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

IAL)		Dec2019	Apr2021 Sep2021	Feb 2022 Jan 2023 Jun 2023	0ct2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0080522	GFL0080562	GFL0066861
Sample Date		Client Info		17 Oct 2023	04 Oct 2023	21 Jun 2023
Machine Age	hrs	Client Info		24658	24658	24658
Oil Age	hrs	Client Info		24658	24658	24658
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	56	41	62
Chromium	ppm	ASTM D5185m	>5	4	3	5
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>15	4	2	4
Lead	ppm	ASTM D5185m	>25	<1	0	1
Copper	ppm	ASTM D5185m	>100	3	2	4
Tin	ppm	ASTM D5185m	>4	<1	<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	5	4	1
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	67	63	70
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1020	1015	987
Calcium	ppm	ASTM D5185m	1070	1117	1124	1206
Phosphorus	ppm	ASTM D5185m	1150	1122	1128	1109
Zinc	ppm	ASTM D5185m	1270	1373	1341	1332
Sulfur	ppm	ASTM D5185m	2060	3143	3222	3341
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	13	10	14
Sodium	ppm	ASTM D5185m		6	5	3
Potassium	ppm	ASTM D5185m	>20	0	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	1.6	1.4	1.7
Nitration	Abs/cm	*ASTM D7624	>20	11.1	10.2	12.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	22.0	23.6
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5	17.6	10.6
CAIGGIUII						
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.8	8.7	19.6 9.0



OIL ANALYSIS REPORT

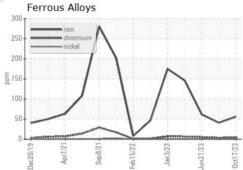


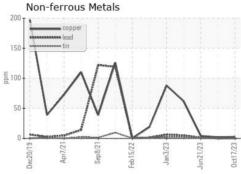


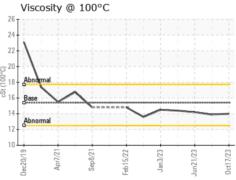
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

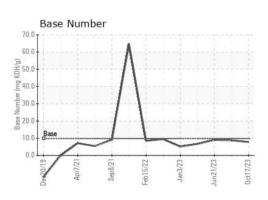
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.9	14.2

GRAPHS













Laboratory Sample No. Lab Number Unique Number : 10699538

: GFL0080522 : 05982243

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Oct 2023 Diagnosed

: 18 Oct 2023 Diagnostician : Wes Davis

GFL Environmental - 018 - Fayetteville

4621 Marracco Drive Hope Mills, NC US 28348

Contact: Robert Carter robert.carter@gflenv.com T: (910)596-1170

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)

Report Id: GFL018 [WUSCAR] 05982243 (Generated: 10/22/2023 20:26:16) Rev: 1