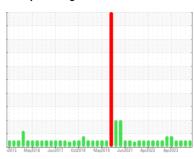


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **2525** 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 oil.

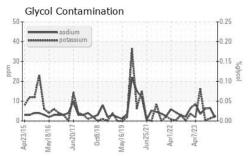
Fluid Condition

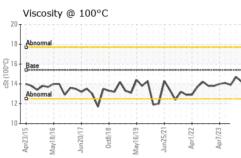
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

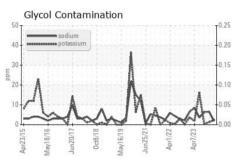
(2015 May2016 Jun2017 0st2018 May2019 Jun2021 Apr2022 Apr2023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0080572	GFL0080565	GFL0080551
Sample Date		Client Info		05 Sep 2023	23 Aug 2023	20 Jul 2023
Machine Age	hrs	Client Info		149169	149169	149169
Oil Age	hrs	Client Info		149169	149169	149169
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
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>165	20	68	50
Chromium	ppm	ASTM D5185m	>5	<1	4	3
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	0	7	3
Lead	ppm	ASTM D5185m	>150	4	19	6
Copper	ppm	ASTM D5185m	>90	<1	2	1
Tin	ppm	ASTM D5185m	>5	<1	2	<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	4	5	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	62	71	68
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1010	1036	1063	1028
Calcium	ppm	ASTM D5185m	1070	1190	1253	1239
Phosphorus	ppm	ASTM D5185m	1150	1098	1152	1129
Zinc	ppm	ASTM D5185m	1270	1326	1432	1390
Sulfur	ppm	ASTM D5185m	2060	3939	3631	3740
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	4	10	7
Sodium	ppm	ASTM D5185m		2	6	6
Potassium	ppm	ASTM D5185m	>20	2	1	<1
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.5	1.8	1.4
Nitration	Abs/cm	*ASTM D7624	>20	7.8	13.8	11.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	28.0	23.9
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	24.7	19.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.13	7.0	7.9



OIL ANALYSIS REPORT



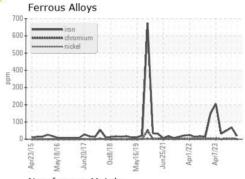


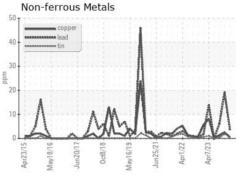


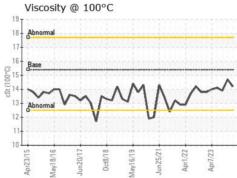
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

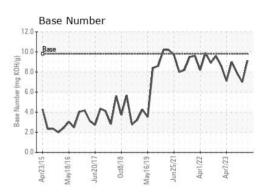
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.7	13.9

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

: GFL0080572 : 05943405 : 10634017

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

: 06 Sep 2023 Diagnosed : 13 Sep 2023 Diagnostician : Jonathan Hester

Test Package : FLEET (Additional Tests: Glycol)

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)

GFL Environmental - 018 - Fayetteville

4621 Marracco Drive Hope Mills, NC US 28348

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