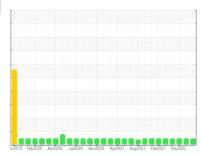


OIL ANALYSIS REPORT

Sample Rating Trend







3894 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (11 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: RESAMPLE)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

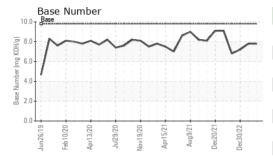
Fluid Condition

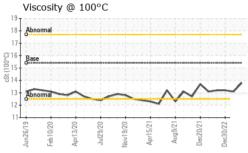
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0072045	GFL0034195	GFL0034199
Sample Date		Client Info		10 May 2023	01 Mar 2023	30 Dec 2022
Machine Age	hrs	Client Info		31877	30548	30111
Oil Age	hrs	Client Info		0	600	600
Oil Changed		Client Info		N/A	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	>165	7	21	11
Chromium	ppm	ASTM D5185m		<1	3	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	<1	1
Lead	ppm	ASTM D5185m	>150	2	3	3
Copper	ppm	ASTM D5185m	>90	<1	<1	1
Tin	ppm	ASTM D5185m	>5	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	6	6
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	64	65	63
Manganese	ppm	ASTM D5185m	0	0	1	<1
Magnesium	ppm	ASTM D5185m	1010	1015	929	909
Calcium	ppm	ASTM D5185m	1070	1168	1120	1184
Phosphorus	ppm	ASTM D5185m	1150	1076	963	995
Zinc	ppm	ASTM D5185m	1270	1334	1261	1262
Sulfur	ppm	ASTM D5185m	2060	3146	3229	3218
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	4	7	5
Sodium	ppm	ASTM D5185m		33	4	5
Potassium	ppm	ASTM D5185m	>20	3	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.3	0.8	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.7	8.4	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	20.2	20.6
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	14.8	16.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.8	7.8	7.2
Dasc Nulliber (DIV)	mg NOH/g	70 TWI D2030	3.0	7.0	7.0	1 .∠



OIL ANALYSIS REPORT

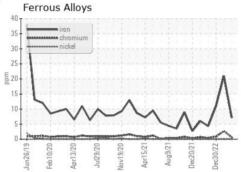


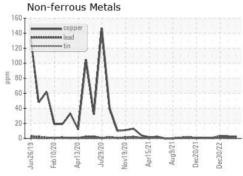


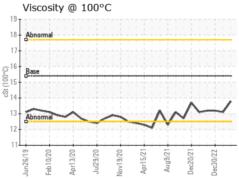
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

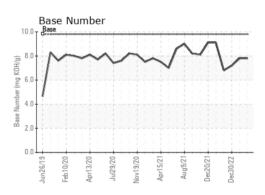
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.1	13.2

GRAPHS













Certificate L2367

Laboratory

Sample No. Lab Number Unique Number : 10702639 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0072045 : 05985344

Received : 20 Oct 2023 Diagnosed : 24 Oct 2023 Diagnostician : Don Baldridge

GFL Environmental - 094 - Cedartown 2097 Buchanan Highway Cedartown, GA US 30125

Contact: WILLIAM FOSTER william.foster@gflenv.com T: (800)207-6618

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)