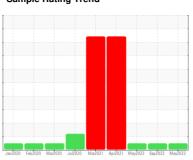


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 10982 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (8 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

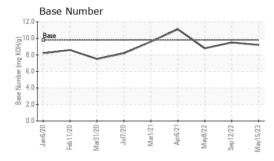
Fluid Condition

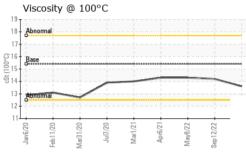
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AL)		Jan2020 Fel	2020 Mar2020 Jul2020	Mar2021 Apr2021 May2022 Sep20	22 May2023	
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0072408	GFL0048165	GFL0048156
Sample Date		Client Info		15 May 2023	12 Sep 2022	08 May 2022
Machine Age	hrs	Client Info		0	0	4880
Oil Age	hrs	Client Info		0	0	625
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>90	6	15	15
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	<1	2	1
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	<1	2	6
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	5	15	10
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	56	54	55
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	914	824	992
Calcium	ppm	ASTM D5185m	1070	1192	975	1079
Phosphorus	ppm	ASTM D5185m	1150	1007	884	1087
Zinc	ppm	ASTM D5185m	1270	1245	1077	1337
Sulfur	ppm	ASTM D5185m	2060	3542	2909	3156
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	4	3	3
Sodium	ppm	ASTM D5185m		3	10	36
Potassium	ppm	ASTM D5185m	>20	1	<1	4
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>6	0.3	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.2	6.5	6.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	18.9	18.2
FLUID DEGRA	NOITAC	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	13.8	13.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.2	9.5	8.8



OIL ANALYSIS REPORT

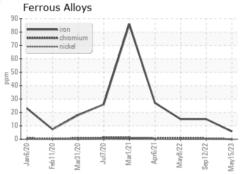


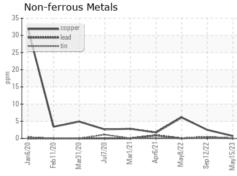


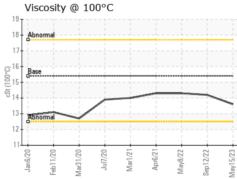
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

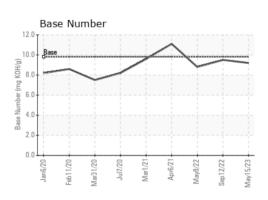
FLUID PROPE	ERITES	metnoa	ilmit/base	current	nistory i	nistory 2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	14.2	14.3

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10472559 Test Package : FLEET

: GFL0072408 : 05848452

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 May 2023

Diagnosed : 17 May 2023 Diagnostician : Wes Davis

GFL Environmental - 119 - Williamston Hauling/TriEast

1805 West Main Street Williamston, NC US 27892

Contact: Spencer Liggon spencer.liggon@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)