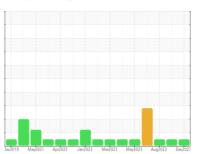


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 12035 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (11 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

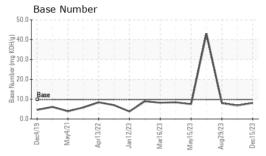
Fluid Condition

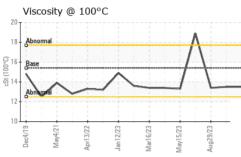
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Jec2019 May2021 Apr2022 Jan2023 May2023 May2023 Aug2023 Dec2023							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0089655	GFL0089584	GFL0089598	
Sample Date		Client Info		15 Dec 2023	17 Nov 2023	29 Aug 2023	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		Not Changd	Not Changd	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>110	8	19	5	
Chromium	ppm	ASTM D5185m	>4	<1	<1	0	
Nickel	ppm	ASTM D5185m	>2	0	0	0	
Titanium	ppm	ASTM D5185m		0	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>25	1	2	2	
Lead	ppm	ASTM D5185m	>45	0	<1	0	
Copper	ppm	ASTM D5185m	>85	<1	1	0	
Tin	ppm	ASTM D5185m	>4	<1	0	<1	
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	3	2	8	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	61	62	60	
Manganese	ppm	ASTM D5185m	0	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	930	914	904	
Calcium	ppm	ASTM D5185m	1070	991	1039	1026	
Phosphorus	ppm	ASTM D5185m	1150	1034	954	998	
Zinc	ppm	ASTM D5185m	1270	1248	1184	1233	
Sulfur	ppm	ASTM D5185m	2060	3125	2704	3726	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	3	6	3	
Sodium	ppm	ASTM D5185m		4	7	2	
Potassium	ppm	ASTM D5185m	>20	2	4	4	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.5	0.8	0.2	
Nitration	Abs/cm	*ASTM D7624		7.2	9.8	5.3	
Sulfation	Abs/.1mm	*ASTM D7415		18.5	20.6	16.9	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	16.8	12.5	
Base Number (BN)	mg KOH/g	ASTM D2896		8.1	6.8	8.0	
(DIV)	mg nong	. IOTHI DEGGO	5.0	0.1	0.0	0.0	



OIL ANALYSIS REPORT

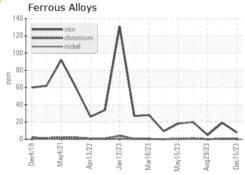


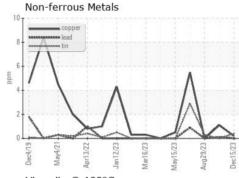


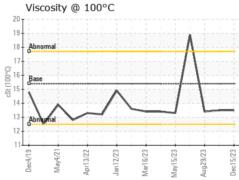
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

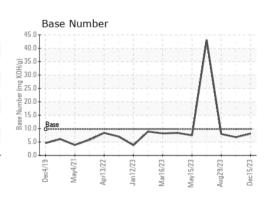
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.5	13.4

GRAPHS













Certificate L2367

Laboratory

Sample No. Lab Number Unique Number : 10796518 Test Package : FLEET

: GFL0089655 : 06041289

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 20 Dec 2023 : 22 Dec 2023 Diagnosed

Diagnostician : Wes Davis

GFL Environmental - 732 - Thomaston Hauling

2616 Waynmansville Road Thomaston, GA US 30286

Contact: WILLIAM BROWN william.brown@gflenv.com T: (706)936-4065

* - 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)