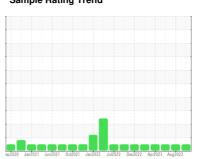


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **828028-1054**

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- LTR)

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.

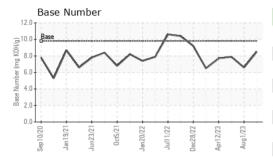
Fluid Condition

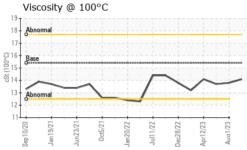
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

epticzo Jankicz I Junkicz Ocładz I Jankicz Ocładz Judocz Dedocz Apydoza Augdoza							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0058128	GFL0082518	GFL0070909	
Sample Date		Client Info		06 Nov 2023	01 Aug 2023	20 Jun 2023	
Machine Age	hrs	Client Info		9408	9163	9042	
Oil Age	hrs	Client Info		245	472	351	
Oil Changed		Client Info		Not Changd	Changed	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>2.0	<1.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS method limit/base current history1 history2							
Iron	ppm	ASTM D5185m	>100	14	30	20	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	0	0	
Titanium	ppm	ASTM D5185m		<1	0	0	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	4	<1	
Lead	ppm	ASTM D5185m	>40	- <1	0	0	
Copper	ppm	ASTM D5185m	>330	2	3	2	
Tin	ppm	ASTM D5185m	>15	0	0	0	
Vanadium	ppm	ASTM D5185m	710	0	<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	4	2	4	
Barium	ppm	ASTM D5185m	0	5	0	0	
Molybdenum	ppm	ASTM D5185m	60	63	62	63	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	912	926	941	
Calcium	ppm	ASTM D5185m	1070	1092	1177	1166	
Phosphorus	ppm	ASTM D5185m	1150	1078	963	1008	
Zinc	ppm	ASTM D5185m	1270	1229	1230	1263	
Sulfur	ppm	ASTM D5185m	2060	3159	3266	3595	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	5	4	
Sodium	ppm	ASTM D5185m		4	9	6	
Potassium	ppm	ASTM D5185m	>20	3	1	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.2	0.6	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	7.3	10.7	10.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	22.2	20.6	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	19.2	17.4	
Base Number (BN)	mg KOH/g	ASTM D2896		8.5	6.6	7.9	
Dasc Nulliber (DIN)	ilig Norly	AOTIVI DZ030	0.0	0.0	0.0	1.0	



OIL ANALYSIS REPORT

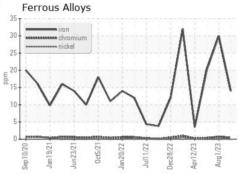


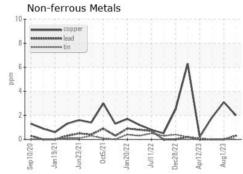


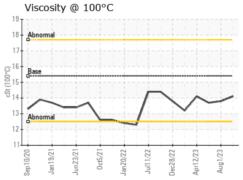
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

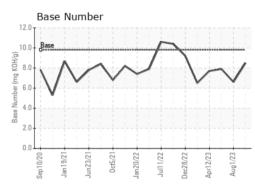
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	13.8	13.7

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: 06000277 : 10728637

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

: GFL0058128 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Nov 2023 Diagnosed : 07 Nov 2023 Diagnostician : Wes Davis

GFL Environmental - 657 - Charlottesville Hauling

5498 Richmond Road Troy, VA US 22974

Contact: Brian Ulickas bulickas@gflenv.com T:

* - 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)

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