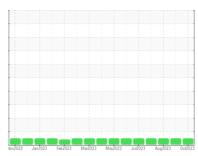


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **422089**

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- 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

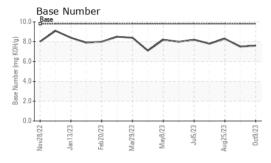
Fluid Condition

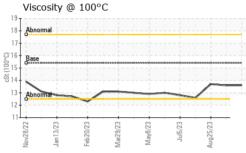
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

JAL)		Vov2022 Jan	2023 Feb2023 Mar20	23 May2023 Jul2023 Aug20	23 Oct2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098482	GFL0083710	GFL0087030
Sample Date		Client Info		09 Oct 2023	18 Sep 2023	25 Aug 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	>110	12	12	9
Chromium	ppm	ASTM D5185m	>4	1	1	1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		5	1	3
Lead	ppm	ASTM D5185m	>45	2	2	0
Copper	ppm	ASTM D5185m		_ 1	<1	<1
Tin	ppm	ASTM D5185m	>4	- <1	<1	<1
Vanadium	ppm	ASTM D5185m	77	0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
	рріп					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	<1	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	56	58	62
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	860	937	988
Calcium	ppm	ASTM D5185m	1070	1085	1173	1229
Phosphorus	ppm	ASTM D5185m	1150	1018	988	1080
Zinc	ppm	ASTM D5185m	1270	1224	1230	1286
Sulfur	ppm	ASTM D5185m	2060	2941	3618	3856
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	7	6	5
Sodium	ppm	ASTM D5185m		5	4	4
Potassium	ppm	ASTM D5185m	>20	9	7	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.7	6.7	5.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	19.2	18.7
FLUID DEGRAI	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	15.0	14.6
Base Number (BN)	mg KOH/g		9.8	7.6	7.5	8.3
Dage Hamber (DIV)	my Normy	AO I WI DE000	0.0	7.0	7.0	0.0



OIL ANALYSIS REPORT

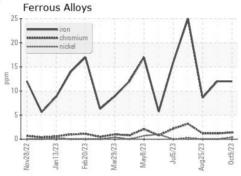


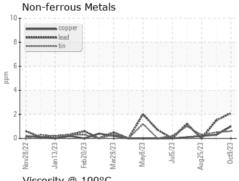


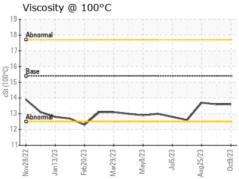
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

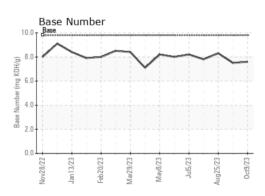
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.6	13.7

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10696122 Test Package : FLEET

: GFL0098482 : 05978827

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Oct 2023 Diagnosed : 16 Oct 2023

Diagnostician : Wes Davis

GFL Environmental - 846 - Mayfield Hauling 3426 State Route 45

Mayfield, KY US 42066 Contact: Jack Lindsey

jack.lindsey@gflenv.com T: (270)970-3690

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)