

OIL ANALYSIS REPORT

Sample Rating Trend

Hev2022 Hev2023 Jan2024 Jan2024

NORMAL



Machine Id **427112-430**

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

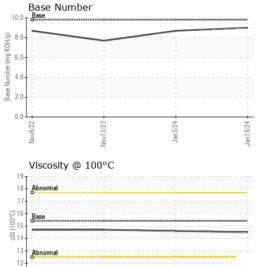
Fluid Condition

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

.TR)		Nov202	2 Nov2023	Jan2024 J:	an2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108532	GFL0108523	GFL0066034
Sample Date		Client Info		19 Jan 2024	03 Jan 2024	13 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	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	>80	40	35	32
Chromium	ppm	ASTM D5185m	>5	2	2	2
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	6	10	22
Lead	ppm	ASTM D5185m	>30	0	0	0
Copper	ppm	ASTM D5185m	>150	1	3	4
Tin	ppm	ASTM D5185m	>5	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	10	0	6
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	60	59
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	986	967	928
Calcium	ppm	ASTM D5185m	1070	1091	1100	1101
Phosphorus	ppm	ASTM D5185m	1150	1124	1035	1007
Zinc	ppm	ASTM D5185m	1270	1272	1237	1158
Sulfur	ppm	ASTM D5185m	2060	3241	3192	2588
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	12	9	5
Sodium	ppm	ASTM D5185m		1	3	5
Potassium	ppm	ASTM D5185m	>20	<1	10	32
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.7	1.5
Nitration	Abs/cm	*ASTM D7624	>20	5.0	7.2	9.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7	19.2	22.4
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	14.3	16.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.0	8.7	7.7



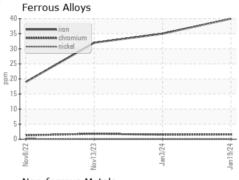
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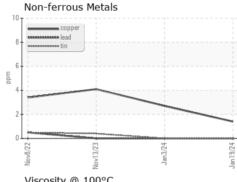


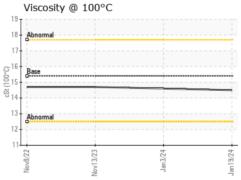
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

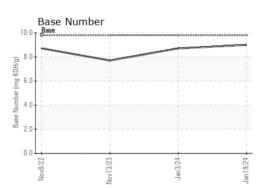
FLUID PROPE	ERITES	method			riistory i	HIStoryZ
Visc @ 100°C	cSt	ASTM D445	15.4	14.5	14.6	14.7

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10849162 Test Package : FLEET

: GFL0108532 : 06072485

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 29 Jan 2024 Diagnosed : 30 Jan 2024 Diagnostician : Wes Davis

GFL Environmental - 904 - Chippewa Falls HC 11888 & 11863 30th Avenue

Chippewa Falls, WI US 54729

Contact: Andy Kane

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)

T: (715)202-3420