

OIL ANALYSIS REPORT

Area MONTGOMERY **HINO 229059**

Diesel Engine Fluid

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.

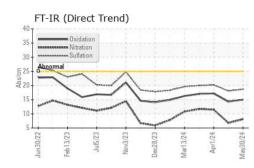
(D)						
ſR)		Jun2022 Fe	2023 Jul2023 Nov20	23 Dec2023 Mar2024 Apr20	124 May2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0088027	GFL0118431	GFL0083568
Sample Date		Client Info		30 May 2024	06 May 2024	01 Apr 2024
Machine Age	hrs	Client Info		10455	10350	10221
Dil Age	hrs	Client Info		0	129	568
Dil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
uel		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
ron	ppm	ASTM D5185m	>100	7	4	10
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Fitanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	2	5
_ead	ppm	ASTM D5185m	>40	1	<1	<1
Copper	ppm	ASTM D5185m	>330	1	<1	3
Гin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	62	66
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m	1010 1070	954 1042	1057 1159	1005 1144
Phosphorus	ppm ppm	ASTM D5185m	1150	1042	1160	1064
Zinc	ppm	ASTM D5185m	1270	1292	1380	1342
Sulfur	ppm	ASTM D5185m	2060	3308	4025	3784
CONTAMINAN		method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	4
Sodium	ppm	ASTM D5185m	~	2	1	4
Potassium	ppm	ASTM D5185m	>20	4	<1	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.4	0.9
Nitration	Abs/cm	*ASTM D7624	>20	8.1	6.8	11.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	18.1	20.2
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation		*ASTM D7414		15.0	14.3	
Jxidation Base Number (BN)	Abs/.1mm mg KOH/g		>25 9.8	15.0 8.5	8.7	17.2 7.0
Dase NUMBER (DIN)	nig KOH/g	NO TIVI D2030	5.0	0.0	0.7	7.0

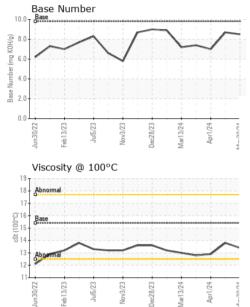
Sample Rating Trend

NORMAL

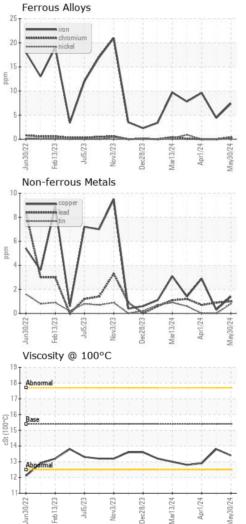


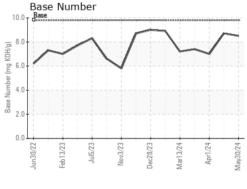
OIL ANALYSIS REPORT





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	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.8	12.9
GRAPHS						





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 955 - Montgomery Sample No. : GFL0088027 Received : 03 Jun 2024 1121 Wilbanks St Lab Number : 06197366 Tested : 04 Jun 2024 Montgomery, AL US 36108 Unique Number : 11059489 Diagnosed : 04 Jun 2024 - Wes Davis Test Package : FLEET Contact: LISA REEVES Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. 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)

Submitted By: Lisa Reeves Page 2 of 2