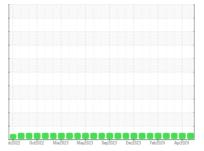


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 912077 Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (40 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

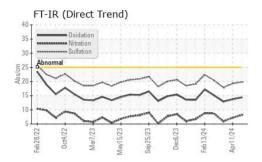
Fluid Condition

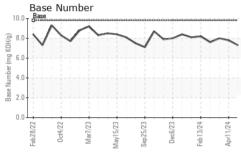
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

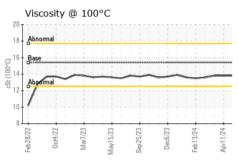
GAL)		162022 Oct2	022 Mar2023 May2023	Sep2023 Dec2023 Feb2024	Apr2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0098901	GFL0098893	GFL0098883	
Sample Date		Client Info		07 May 2024	11 Apr 2024	20 Mar 2024	
Machine Age	hrs	Client Info		6421	6258	5940	
Oil Age	hrs	Client Info		6421	5940	5940	
Oil Changed		Client Info		N/A	N/A	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	>100	17	15	11	
Chromium	ppm	ASTM D5185m	>20	0	1	<1	
Nickel	ppm	ASTM D5185m	>4	2	4	3	
Titanium	ppm	ASTM D5185m		0	<1	<1	
Silver	ppm	ASTM D5185m	>3	0	<1	<1	
Aluminum	ppm	ASTM D5185m	>20	<1	2	3	
Lead	ppm	ASTM D5185m	>40	0	1	<1	
Copper	ppm	ASTM D5185m	>330	2	2	2	
Tin	ppm	ASTM D5185m	>15	0	2	<1	
Vanadium	ppm	ASTM D5185m		0	<1	<1	
Cadmium	ppm	ASTM D5185m		0	1	<1	
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	58	56	77	
Manganese	ppm	ASTM D5185m	0	0	1	<1	
Magnesium	ppm	ASTM D5185m	1010	921	838	1178	
Calcium	ppm	ASTM D5185m	1070	1116	1053	1380	
Phosphorus	ppm	ASTM D5185m	1150	978	1004	1233	
Zinc	ppm	ASTM D5185m	1270	1207	1121	1524	
Sulfur	ppm	ASTM D5185m	2060	2972	3105	3995	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	5	7	
Sodium	ppm	ASTM D5185m		1	<1	2	
Potassium	ppm	ASTM D5185m	>20	0	2	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	1	0.8	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	8.2	7.2	5.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	19.3	17.9	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	13.7	12.9	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.3	7.8	8.0	



OIL ANALYSIS REPORT



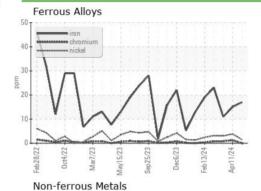




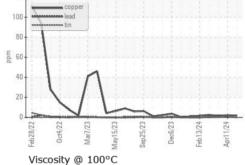
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

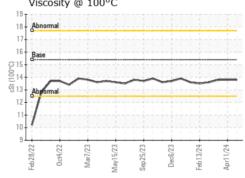
FLUID PROP	EKIIES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.8	13.8

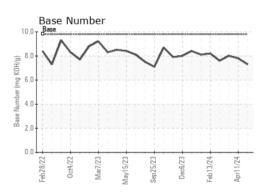
GRAPHS















Certificate 12367

Sample No. Lab Number : 06187480

: GFL0098901 Unique Number : 11044232 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 May 2024

Tested : 23 May 2024

Diagnosed : 23 May 2024 - Wes Davis

GFL Environmental - 084 - Clarksville

699 Jack Miller Boulevard Clarksville, TN US 37042

Contact: ROBERT THIBAULT robert.thibault@gflenv.com

T: (931)552-7276

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)

F: (931)572-9674