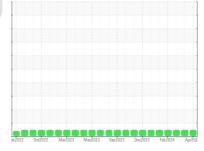


OIL ANALYSIS REPORT

Sample Rating Trend







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.

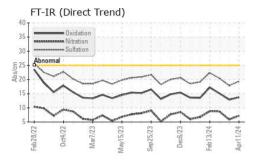
Fluid Condition

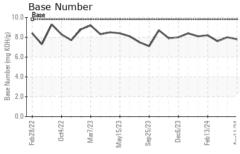
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

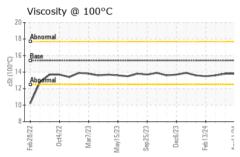
GAL) 86/022 0x20122 Mar2023 Mar2023 0x2023 0x2023 Feb.2024 April 02						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098893	GFL0098883	GFL0098855
Sample Date		Client Info		11 Apr 2024	20 Mar 2024	28 Feb 2024
Machine Age	hrs	Client Info		6258	5940	5940
Oil Age	hrs	Client Info		5940	5940	5330
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	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 METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	15	11	23
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	4	3	3
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	3	4
Lead	ppm	ASTM D5185m	>40	1	<1	<1
Copper	ppm	ASTM D5185m		2	2	3
Tin	ppm	ASTM D5185m	>15	2	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	1	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	56	77	56
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	838	1178	883
Calcium	ppm	ASTM D5185m	1070	1053	1380	1095
Phosphorus Zinc	ppm	ASTM D5185m	1150 1270	1004 1121	1233 1524	939 1179
Sulfur	ppm	ASTM D5185m	2060	3105	3995	2789
CONTAMINAN [*]	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	7	4
Sodium	ppm	ASTM D5185m	725	<1	2	2
Potassium	ppm	ASTM D5185m	>20	2	2	3
INFRA-RED		method	limit/base	current	history1	history2
010/	%	*ASTM D7844	>3	0.8	0.5	1.1
Soot %				7.2	5.9	8.7
Nitration	Abs/cm	*ASTM D7624	>20	1.2	5.9	0.7
	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415		19.3	17.9	20.4
Nitration	Abs/.1mm	*ASTM D7415				
Nitration Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	17.9	20.4



OIL ANALYSIS REPORT



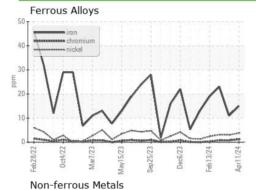




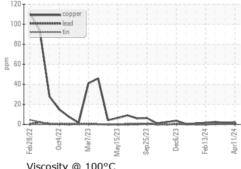
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

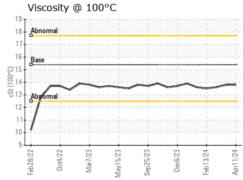
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.8	13.6	

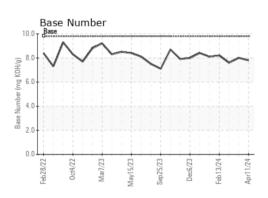
GRAPHS















Laboratory Sample No.

: GFL0098893 Lab Number : 06152731 Unique Number : 10982809

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Apr 2024

Tested : 18 Apr 2024 Diagnosed : 18 Apr 2024 - Wes Davis

699 Jack Miller Boulevard Clarksville, TN US 37042

Contact: ROBERT THIBAULT

GFL Environmental - 084 - Clarksville

Test Package : FLEET Certificate 12367 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)

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