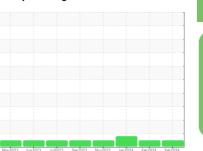


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id
412008
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

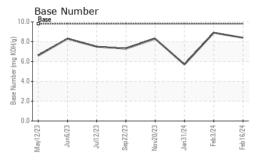
Fluid Condition

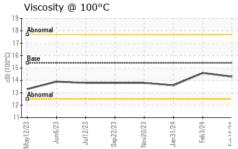
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

N SHP 15W40 (GAL)	May2023	Jun2023 Jul2023 Sep 202	23 Nov2023 Jan2024 Feb2024	Feb2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0112718	GFL0101307	GFL0101277
Sample Date		Client Info		16 Feb 2024	03 Feb 2024	31 Jan 2024
Machine Age	hrs	Client Info		3131	3003	2981
Oil Age	hrs	Client Info		2981	2238	2671
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
-uel		WC Method	>3.0	<1.0	<1.0	<1.0
Nater		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	>120	0	1	16
Chromium	ppm	ASTM D5185m	>20	<1	0	1
Nickel	ppm	ASTM D5185m	>5	<1	<1	<u> </u>
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	<1	<1	2
_ead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	0	<1	4
Γin	ppm	ASTM D5185m	>15	0	<1	2
√anadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	<1	1
Barium	ppm	ASTM D5185m	0	0	0	13
Molybdenum	ppm	ASTM D5185m	60	56	59	69
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	944	1007	995
Calcium	ppm	ASTM D5185m	1070	1005	1041	1092
Phosphorus	ppm	ASTM D5185m	1150	999	1079	948
Zinc	ppm	ASTM D5185m	1270	1255	1284	1299
Sulfur	ppm	ASTM D5185m	2060	3004	3313	2914
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	2	8
Sodium	ppm	ASTM D5185m		0	2	0
Potassium	ppm	ASTM D5185m	>20	0	0	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.1	0.5
Nitration	Abs/cm	*ASTM D7624	>20	6.1	4.9	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	18.1	21.5
FLUID DEGRA	OITAC	method	limit/base	current	history1	history2
FLUID DEGRAD	OATION Abs/.1mm	method *ASTM D7414	limit/base >25	current 14.7	history1 13.9	history2 18.2



OIL ANALYSIS REPORT

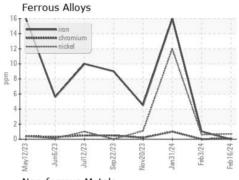


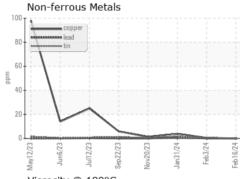


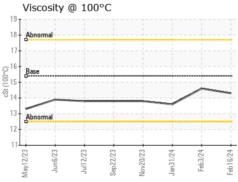
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

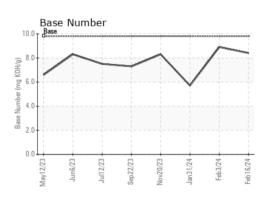
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.6	13.6	

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number : 06100853

: GFL0112718

Unique Number: 10899083 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Feb 2024

Tested : 27 Feb 2024 Diagnosed : 27 Feb 2024 - Wes Davis

GFL Environmental - 654 - Richmond Hauling

11800 Lewis Road Chester, VA US 23831

Contact: Jimmy Mayes jmayes@gflenv.com

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)

Report Id: GFL654 [WUSCAR] 06100853 (Generated: 02/27/2024 17:16:49) Rev: 1

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