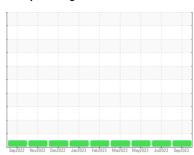


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
425113
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

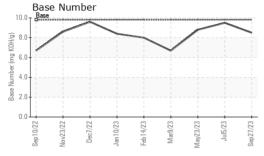
Fluid Condition

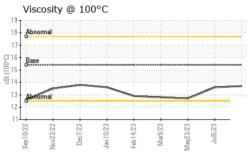
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

M 3HP 13W40 (-	GAL)	Sep2022 No	v2022 Dec2022 Jan2023	Feb 2023 Mar 2023 May 2023 Jul 20	23 Sep 2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0069110	GFL0068750	GFL0068771
Sample Date		Client Info		27 Sep 2023	05 Jul 2023	23 May 2023
Machine Age	hrs	Client Info		18357	18273	18160
Oil Age	hrs	Client Info		197	113	159
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	10	2	5
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	2
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	7	0	2
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	2	<1	3
Tin	ppm	ASTM D5185m	>15	- <1	0	<1
Vanadium	ppm	ASTM D5185m	710	0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	9	15
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	65	65	62
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	842	849	872
Calcium	ppm	ASTM D5185m	1070	1042	1093	1173
Phosphorus	ppm	ASTM D5185m	1150	975	988	996
Zinc	ppm	ASTM D5185m	1270	1160	1138	1227
Sulfur	ppm	ASTM D5185m	2060	3171	2921	3454
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	3	6
Sodium	ppm	ASTM D5185m		2	0	4
Potassium	ppm	ASTM D5185m	>20	4	3	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.8	0.1	0.2
Vitration	Abs/cm	*ASTM D7624	>20	7.2	5.9	7.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	17.7	17.3
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	13.7	13.3
Base Number (BN)	mg KOH/g	ASTM D2896		8.5	9.5	8.8
(DI4)	mg itoring	. 10 1 111 D2000	3.0	0.0	0.0	0.0



OIL ANALYSIS REPORT

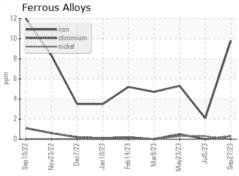


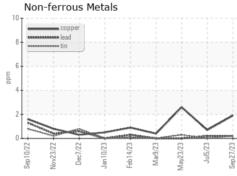


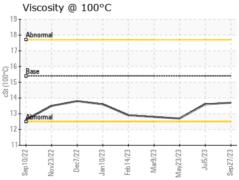
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

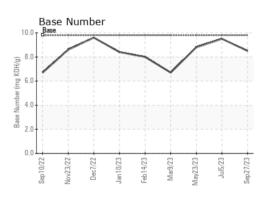
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.6	12.7

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10671626

: GFL0069110 : 05965075

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 Sep 2023

Diagnosed : 02 Oct 2023 Diagnostician : Wes Davis

GFL Environmental - 073 - Warner Robins - Transwaste

155 Story Road Warner Robins, GA US 31093

Contact: JOSH MALONEY

jmaloney@gflenv.com

T: F:

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: GFL073 [WUSCAR] 05965075 (Generated: 10/02/2023 07:57:18) Rev: 1