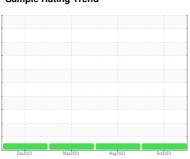


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id 911036 Component Diesel Engine Fluid

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.

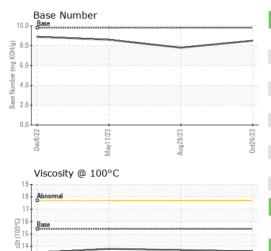
M 3HP 13W40 (- GAL)	Dec202	2 May2023	Aug2023 0	ct2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092771	GFL0080827	GFL0080737
Sample Date		Client Info		26 Oct 2023	28 Aug 2023	17 May 2023
Machine Age	hrs	Client Info		16054	15807	600
Oil Age	hrs	Client Info		848	600	600
Oil Changed		Client Info		N/A	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	7	8	2
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	2	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	1	4	2
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m		2	<1	0
Tin	ppm	ASTM D5185m	>15	 <1	<1	<1
√anadium	ppm	ASTM D5185m	710	0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	20	5
Barium	ppm	ASTM D5185m	0	4	0	0
Molybdenum	ppm	ASTM D5185m	60	64	67	58
Vanganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	870	970	953
Calcium	ppm	ASTM D5185m	1070	1056	1114	1072
Phosphorus	ppm	ASTM D5185m	1150	920	1000	1061
Zinc	ppm	ASTM D5185m	1270	1168	1245	1311
Sulfur	ppm	ASTM D5185m	2060	3027	3435	3912
CONTAMINAN		method	limit/base		history1	history2
Silicon	ppm		>25	4	5	3
Sodium	ppm	ASTM D5185m		0	2	1
Potassium	ppm	ASTM D5185m	>20	1	0	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.3	0.2
Nitration	Abs/cm	*ASTM D7624		8.0	7.5	5.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	19.7	18.6
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	15.5	14.1
Base Number (BN)	mg KOH/g	ASTM D2896		8.5	7.8	8.6
Dago (DIA)	mg Northy	, 10 HVI D2000	0.0	0.0	7.0	0.0



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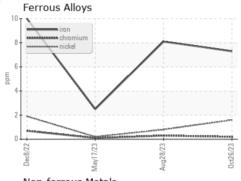
OIL ANALYSIS REPORT

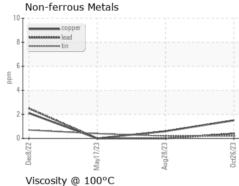


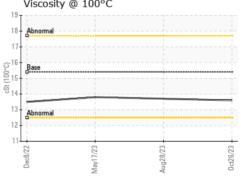
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

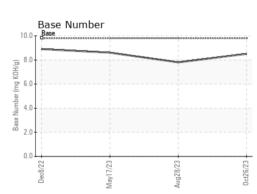
FLUID PROPE	RHES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.7	13.8

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10726017 Test Package : FLEET

: GFL0092771 : 05997657

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Nov 2023 Diagnosed : 06 Nov 2023 Diagnostician : Wes Davis

GFL Environmental - 455 - Flint 2051 W. Bristol Rd

Flint Township, MI US 48507 Contact: MARK WOMBLE

mwomble@gflenv.com T: (586)825-9514

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)