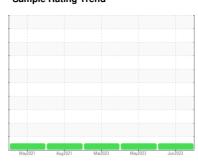


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 3402M 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

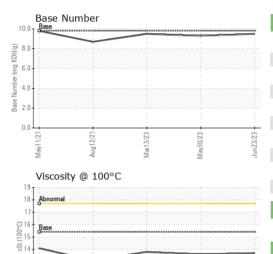
Fluid Condition

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

GAL)		May2021	Aug2021	Mar2023 May2023	Jun 2023	
SAMPLE INFORI	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0055936	GFL0067558	GFL0067613
Sample Date		Client Info		23 Jun 2023	30 May 2023	13 Mar 2023
Machine Age	hrs	Client Info		17775	17600	17199
Oil Age	hrs	Client Info		589	599	579
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>110	16	11	13
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>25	2	4	2
Lead	ppm	ASTM D5185m	>45	<1	<1	0
Copper	ppm	ASTM D5185m	>85	2	1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	2	5	5
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	62	61	59
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	946	954	874
Calcium	ppm	ASTM D5185m	1070	1101	1106	1029
Phosphorus	ppm	ASTM D5185m	1150	1016	1067	949
Zinc	ppm	ASTM D5185m	1270	1246	1322	1096
Sulfur	ppm	ASTM D5185m	2060	3624	3480	3415
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>30	13	12	4
Sodium	ppm	ASTM D5185m		3	2	2
Potassium	ppm	ASTM D5185m	>20	2	3	0
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.0	6.9	6.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	18.4	17.8
FLUID DEGRA	DATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	14.3	13.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.5	9.3	9.5



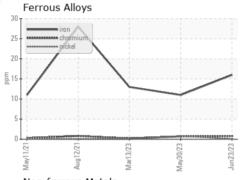
OIL ANALYSIS REPORT



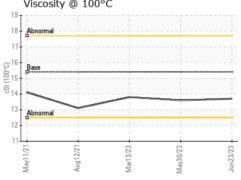
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

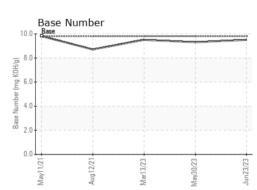
FLUID PROPI	ERTIES	method			history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.6	13.8

GRAPHS



Non-f	errous Met	tals		
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e				
4				
2		statement and the	The state of the s	
May11/21-	Aug12/21.	Mar13/23	May30/23 -	Jun23/23
Visco	sity @ 100	°C		









Certificate L2367

Laboratory Sample No. Test Package : FLEET

Lab Number **Unique Number**

: GFL0055936 : 05885402 : 10535885

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 28 Jun 2023 Received Diagnosed

: 30 Jun 2023 Diagnostician : Wes Davis

501 N. Western Ave Cheboygan, MI US 49721 Contact: Chris Gee cgee@gflenv.com T: (231)597-8553

GFL Environmental - 463 - Cheboygan

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)