

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 10594 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

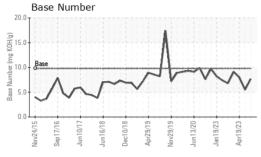
Fluid Condition

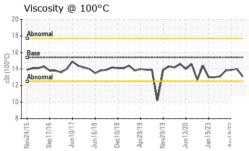
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

2015 Sap2016 Jun2017 Jun2018 Dec2013 Apr2019 New2019 Jun2020 Jun2023 Apr2023						
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0086299	GFL0086297	GFL0081498
Sample Date		Client Info		08 Jul 2023	06 Jun 2023	19 Apr 2023
Machine Age	hrs	Client Info		14323	14193	13914
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	31	23	13
Chromium	ppm	ASTM D5185m	>20	3	1	2
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m	7 7	0	0	0
Silver		ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	5	15	2
			>40	0	0	0
_ead	ppm	ASTM D5185m				
Copper	ppm	ASTM D5185m		1	11	<1
Γin , "	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	1	7
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	65	58
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	830	983	965
Calcium	ppm	ASTM D5185m	1070	988	1122	1024
Phosphorus	ppm	ASTM D5185m	1150	928	972	1022
Zinc	ppm	ASTM D5185m	1270	1147	1333	1256
Sulfur	ppm	ASTM D5185m	2060	2929	3760	3781
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	7	3
Sodium	ppm	ASTM D5185m		5	2	3
Potassium	ppm	ASTM D5185m	>20	3	17	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.7	0.2
Nitration	Abs/cm	*ASTM D7624	>20	10.5	10.9	5.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	22.0	16.1
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.8	17.7	13.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.7	5.5	8.0



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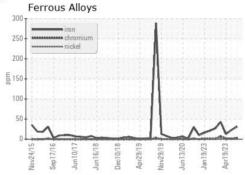


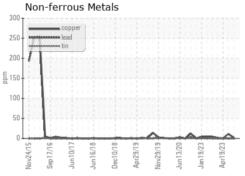


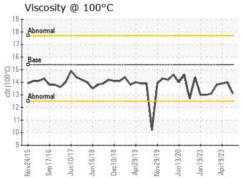
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

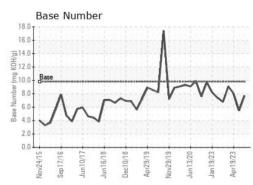
FLUID PROPE	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	14.0	13.9

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: 05902753 : 10564109

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0086299 Received Diagnosed

: 19 Jul 2023 : 20 Jul 2023 Diagnostician : Wes Davis

GFL Environmental - 868 - Childersburg Fines Hauling (Alpine)

13737 Plant Rd Childersburg, AL US 35044

Contact: JONATHAN WILLIAMS jonathan.williams@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)

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