

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 10443 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (8 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.

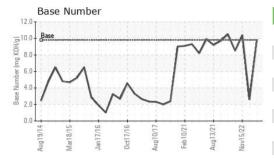
Fluid Condition

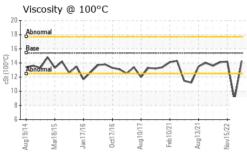
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

2 /A/L.) @2014 Mini2015 Jan2016 Oct2016 Aug/2017 Feb2021 Aug/2021 New2022						
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0066837	GFL0074417	GFL0050216
Sample Date		Client Info		04 Jul 2023	07 Apr 2023	15 Nov 2022
Machine Age	hrs	Client Info		57347	57347	57347
Oil Age	hrs	Client Info		57347	57347	150
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>3.0	<1.0	1.5	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>75	16	29	46
Chromium	ppm	ASTM D5185m	>5	<1	0	2
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>15	3	8	4
Lead	ppm	ASTM D5185m	>25	<1	13	<1
Copper	ppm	ASTM D5185m	>100	2	14	1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	2	41	8
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	64	<u> </u>	66
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1010	1018	<u> </u>	850
Calcium	ppm	ASTM D5185m	1070	1087	△ 634	1240
Phosphorus	ppm	ASTM D5185m	1150	1118	4 09	1025
Zinc	ppm	ASTM D5185m	1270	1355	<u></u> 311	1280
Sulfur	ppm	ASTM D5185m	2060	3957	2294	3754
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	5	18	7
Sodium	ppm	ASTM D5185m		3	18	10
Potassium	ppm	ASTM D5185m	>20	4	2	4
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>6	1.2	0.1	3.2
Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.2	13.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	26.7	26.8
FLUID DEGRAI	OITAC	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	<u>^</u> 28.8	18.2
Base Number (BN)	mg KOH/g		9.8	9.7	△ 2.6	10.4
Dago Harribol (DIV)	my Normy	, 10 TW D2000	0.0	0		10.7



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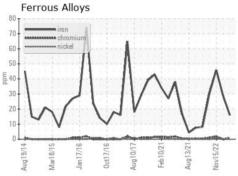


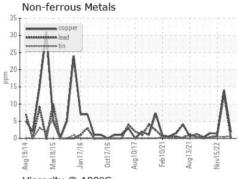


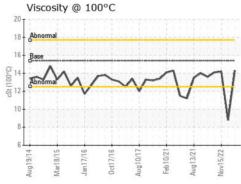
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

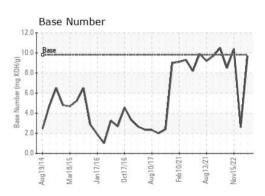
FLUID PROPE	RHES	method			history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	8.8	14.2

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0066837 : 05891150 : 10546960

Received : 06 Jul 2023 Diagnosed : 06 Jul 2023

Diagnostician : Wes Davis

GFL Environmental - 018 - Fayetteville 4621 Marracco Drive

Hope Mills, NC US 28348

Contact: Robert Carter robert.carter@gflenv.com T: (910)596-1170

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)