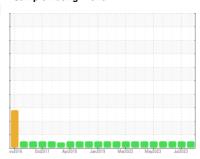


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 11252 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (16 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

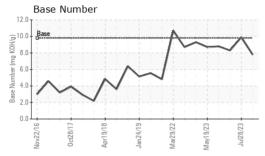
Fluid Condition

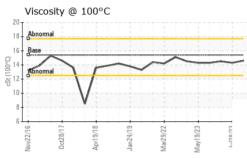
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)		ov2016 O	ct2017 Apr2018 Ja	in2019 Mar2022 May2023	Jul2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0083133	GFL0083103	GFL0083151
Sample Date		Client Info		31 Aug 2023	28 Jul 2023	10 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed	1110	Client Info		Not Changd	Not Changd	Not Changd
Sample Status		Olichi illio		NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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	50	14	47
Chromium	ppm	ASTM D5185m		3	<1	3
Nickel	ppm	ASTM D5185m	>4	2	0	2
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		6	5	8
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m		3	<1	5
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m	>10	<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	PPIII	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	22	2	15
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	60	55	61	58
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	729	1025	761
Calcium	ppm	ASTM D5185m	1070	1454	1095	1295
Phosphorus	ppm	ASTM D5185m	1150	842	1088	899
Zinc	ppm	ASTM D5185m	1270	1053	1346	1122
Sulfur	ppm	ASTM D5185m	2060	2989	3842	2987
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm		>25	13	6	13
Sodium	ppm	ASTM D5185m		14	2	19
Potassium	ppm	ASTM D5185m	>20	1	0	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.4	1.3	1.7
Nitration	Abs/cm	*ASTM D7624	>20	8.8	9.0	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	20.8	23.2
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	15.8	16.8
Base Number (BN)	mg KOH/g		9.8	7.8	9.9	8.3
= 300 · 10.11001 (D14)			3.0		0.0	0.0



OIL ANALYSIS REPORT

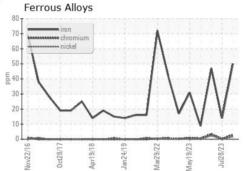


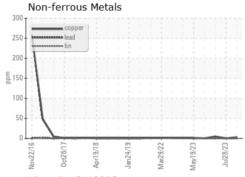


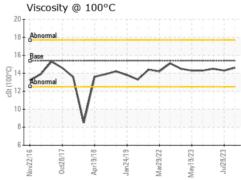
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

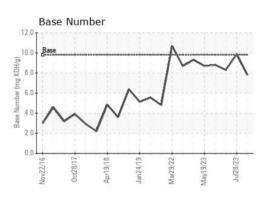
FLUID PROPE	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.6	14.3	14.5

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number

: GFL0083133 : 05943285 Unique Number : 10633897 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Sep 2023

Diagnosed : 07 Sep 2023 Diagnostician : Wes Davis

GFL Environmental - 074 - Douglas - Transwaste

1219 Landfill Road Douglas, GA US 31533

Contact: CURTIS JACOBS

CURTIS.JACOBS@GFLENV.COM

* - 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) T: (912)384-6001