

OIL ANALYSIS REPORT







Machine Id 10445 Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (8 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

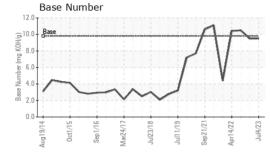
Fluid Condition

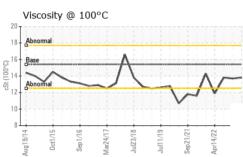
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

1 AL) 102014 0 12 015 8 ₈₀ 2016 Mar2017 Ju2018 Ju2018 S ₈₀ 2021 Apr2022 Ju202						
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0066835	GFL0066829	GFL0055880
Sample Date		Client Info		04 Jul 2023	15 Mar 2023	19 Aug 2022
Machine Age	hrs	Client Info		54587	54587	54587
Oil Age	hrs	Client Info		54587	54587	150
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	>3.0	<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	>75	22	7	11
Chromium	ppm	ASTM D5185m	>5	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>15	1	2	3
Lead	ppm	ASTM D5185m	>25	<1	<1	<1
Copper	ppm	ASTM D5185m		2	<1	2
Tin	ppm	ASTM D5185m	>4	1	<1	<1
Vanadium	ppm	ASTM D5185m	7 7	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ррпп					
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	8	5	19
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	62	55	58
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	988	839	719
Calcium	ppm	ASTM D5185m	1070	1115	1020	1121
Phosphorus	ppm	ASTM D5185m	1150	1100	951	936
Zinc	ppm	ASTM D5185m	1270	1330	1111	1086
Sulfur	ppm	ASTM D5185m	2060	3959	2610	2859
CONTAMINAN	ITS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	6	3	5
Sodium	ppm	ASTM D5185m		2	<1	9
Potassium	ppm	ASTM D5185m	>20	5	3	3
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>6	0.4	0.3	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.3	5.4	5.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	17.8	19.1
FLUID DEGRA	NOITAC	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	13.0	15.0
Base Number (BN)	mg KOH/g		9.8	9.5	9.5	10.5
	1119 1101119	. 10 1111 D2000	0.0	0.0	0.0	10.0



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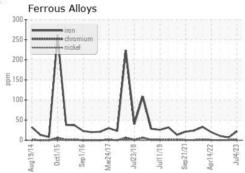


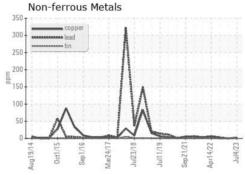


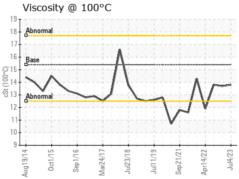
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

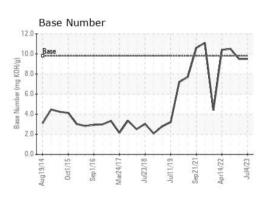
FLUID PROPERTIES		method			history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.7	13.8

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10546955 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0066835 : 05891145

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)