

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



(YA139880) Machine Id 3705 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (10 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

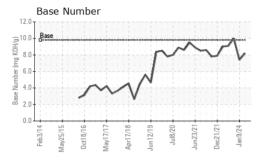
Fluid Condition

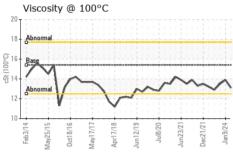
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

52014 May2015 Oct2016 May2017 Apr2018 Jun2019 Jun2020 Jun2021 Dac2021 Jan2024						
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0101759	PCA0101780	PCA0077347
Sample Date		Client Info		28 Feb 2024	09 Jan 2024	03 Nov 2022
Machine Age	hrs	Client Info		17346	17017	16049
Oil Age	hrs	Client Info		329	649	566
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>165	12	27	3
Chromium	ppm	ASTM D5185m	>5	2	4	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	1 0	<1
Lead	ppm	ASTM D5185m	>150	1	5	<1
Copper	ppm	ASTM D5185m	>90	13	55	1
Tin	ppm	ASTM D5185m	>5	<1	2	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	17	25	19
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	62	53	66
Manganese	ppm	ASTM D5185m	0	<1	2	<1
Magnesium	ppm	ASTM D5185m	1010	700	788	829
Calcium	ppm	ASTM D5185m	1070	1306	1240	1135
Phosphorus	ppm	ASTM D5185m	1150	953	789	996
Zinc	ppm	ASTM D5185m	1270	1182	1014	1105
Sulfur	ppm	ASTM D5185m	2060	3345	2352	3471
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	18	△ 55	4
Sodium	ppm	ASTM D5185m		4	3	2
Potassium	ppm	ASTM D5185m	>20	1	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.4	0.6	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.5	10.6	5.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	22.0	18.8
FLUID DEGRAD	NOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	19.7	13.1
	mg KOH/g	ASTM D2896	9.8	8.2	7.4	10.0
(2.1)	39	2 22000		<u></u>		



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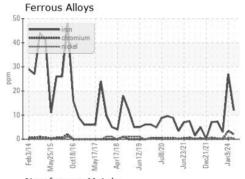


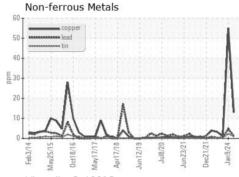


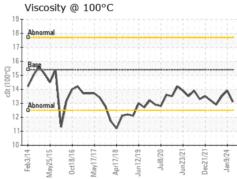
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

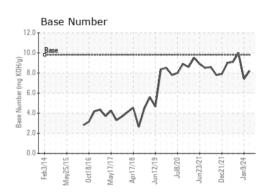
FLUID PROP	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	13.9	13.5

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number : 06104046 Unique Number : 10902276

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0101759

Received **Tested**

: 29 Feb 2024 : 29 Feb 2024 Diagnosed : 29 Feb 2024 - Wes Davis

GFL Environmental - 002 - Vance-Granville

241 Vanco Mill Rd Henderson, NC US 27537

T: (252)438-5333

F: (252)431-1635

Contact: Cameron King cameron.king@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)

Report Id: GFL002 [WUSCAR] 06104046 (Generated: 02/29/2024 16:33:24) Rev: 1

Submitted By: Cameron King