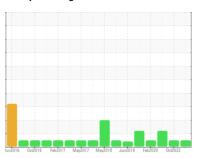


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 3703 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.

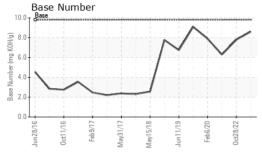
Fluid Condition

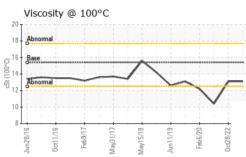
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

iAL)		lun2016 Oct	2016 Feb2017 May2017	May2018 Jun2019 Feb2020	Oct2022		
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2	
Sample Number		Client Info		GFL0070493	GFL0058548	GFL0039460	
Sample Date		Client Info		09 May 2023	28 Oct 2022	14 Feb 2022	
Machine Age	hrs	Client Info		9961	9961	9353	
Oil Age	hrs	Client Info		9961	608	9353	
Oil Changed		Client Info		N/A	Changed	N/A	
Sample Status				NORMAL	NORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history 1	history 2	
Fuel		WC Method	>5	<1.0	<1.0	0.0	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history 1	history 2	
Iron	ppm	ASTM D5185m	>75	15	35	4 96	
Chromium	ppm	ASTM D5185m	>5	1	2	4	
Nickel	ppm	ASTM D5185m	>4	<1	0	0	
Titanium	ppm	ASTM D5185m	>2	0	0	<1	
Silver	ppm	ASTM D5185m	>2	0	<1	0	
Aluminum	ppm	ASTM D5185m	>15	2	3	10	
Lead	ppm	ASTM D5185m	>25	0	<1	2	
Copper	ppm	ASTM D5185m	>100	<1	2	28	
Tin	ppm	ASTM D5185m	>4	0	<1	1	
Antimony	ppm	ASTM D5185m				0	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history 1	history 2	
Boron	ppm	ASTM D5185m	0	3	11	19	
Barium	ppm	ASTM D5185m	0	2	2	0	
Molybdenum	ppm	ASTM D5185m	60	62	69	52	
Manganese	ppm	ASTM D5185m	0	<1	<1	2	
Magnesium	ppm	ASTM D5185m	1010	902	934	827	
Calcium	ppm	ASTM D5185m	1070	1128	1220	1063	
Phosphorus	ppm	ASTM D5185m	1150	1029	1046	740	
Zinc	ppm	ASTM D5185m	1270	1199	1271	899	
Sulfur	ppm	ASTM D5185m	2060	2903	3357	2148	
CONTAMINAN	ITS	method	limit/base	current	history 1	history 2	
Silicon	ppm	ASTM D5185m	>25	6	5	13	
Sodium	ppm	ASTM D5185m		2	<1	59	
Potassium	ppm	ASTM D5185m	>20	2	1	3	
INFRA-RED		method	limit/base	current	history 1	history 2	
Soot %	%	*ASTM D7844	>6	0.4	0.9	0.8	
Nitration	Abs/cm	*ASTM D7624	>20	8.4	11.3	12.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	23.1	24.0	
FLUID DEGRADATION method limit/base current history 1 history 2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	19.4	21.1	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	7.8	6.3	
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OIL ANALYSIS REPORT

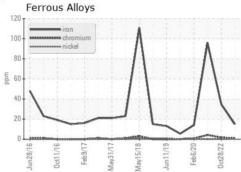


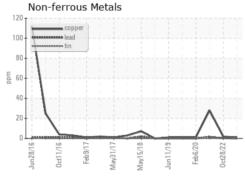


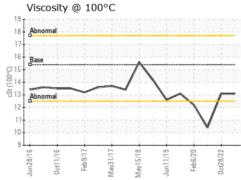
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

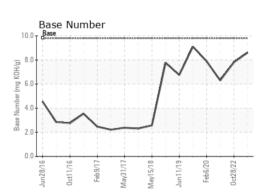
FLUID PROP	EHILO	memoa			flistory i	flistory 2
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	13.1	△ 10.4

GRAPHS













Certificate L2367

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

: GFL0070493 : 05846849 : 10470956

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 May 2023 Diagnosed : 16 May 2023

Diagnostician : Wes Davis GFL Environmental - 19DR - Deep Run/TriEast

2287 Leslie R Stroud Road Kinston, NC US 28504-9477 Contact: Spencer Liggon spencer.liggon@gflenv.com

T: (800)207-6618

* - 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)