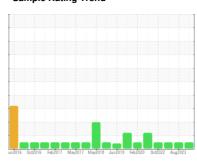


OIL ANALYSIS REPORT

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

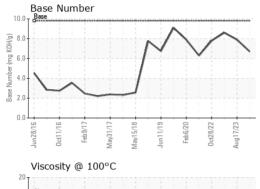
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AL)		un2016 Oct20	16 Feb2017 May2017 Ma	ny2018 Jun2019 Feb2020 Oct2022	Aug2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date		Client Info		GFL0098786 31 Oct 2023	GFL0072374 17 Aug 2023	GFL0070493 09 May 2023
Machine Age	hrs	Client Info		9961	0	9961
Oil Age	hrs	Client Info		9961	332	9961
Oil Changed		Client Info		N/A	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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	>75	59	47	15
Chromium	ppm	ASTM D5185m	>5	3	2	1
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	2	2	2
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	1	2	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	13	1	3
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	60	69	67	62
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1028	999	902
Calcium	ppm	ASTM D5185m	1070	1240	1267	1128
Phosphorus	ppm	ASTM D5185m	1150	1135	1096	1029
Zinc	ppm	ASTM D5185m	1270	1425	1309	1199
Sulfur	ppm	ASTM D5185m	2060	3296	3668	2903
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	7	6
Sodium	ppm	ASTM D5185m		15	65	2
Potassium	ppm	ASTM D5185m	>20	4	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	2.4	1.2	0.4
Nitration	Abs/cm	*ASTM D7624	>20	12.0	9.5	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.2	21.8	20.2
FLUID DEGRAI	AOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.0	16.7	17.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.7	7.9	8.6



cSt (100°C)

OIL ANALYSIS REPORT

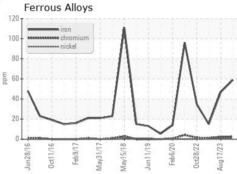


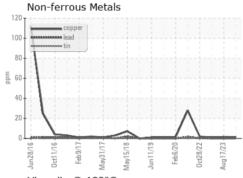


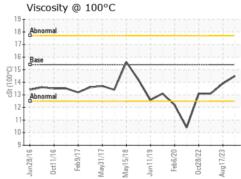
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

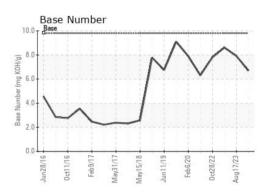
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	14.5	13.9	13.1	

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

Unique Number

: GFL0098786 : 05998816 : 10727176

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Nov 2023 : 07 Nov 2023 Diagnosed

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)