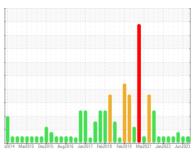


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 10524 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (13 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.

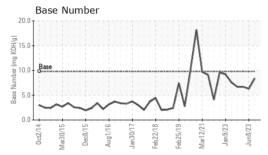
Fluid Condition

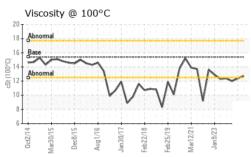
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

2614 Mar2015 Dec2015 Aug2016 Jan2017 Feb2016 Feb2019 Mar2021 Jan2023 Jun2023							
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2	
Sample Number		Client Info		GFL0086081	GFL0083276	GFL0082829	
Sample Date		Client Info		27 Jun 2023	08 Jun 2023	26 May 2023	
Machine Age	hrs	Client Info		17226	17192	17085	
Oil Age	hrs	Client Info		34	653	471	
Oil Changed		Client Info		Changed	Changed	Not Changd	
Sample Status				NORMAL	NORMAL	MARGINAL	
CONTAMINAT	ION	method	limit/base	current	history 1	history 2	
Fuel		WC Method	>5	<1.0	<1.0	2.9	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS method limit/base current history 1 history 2							
Iron	ppm	ASTM D5185m	>110	11	51	40	
Chromium	ppm	ASTM D5185m	>4	<1	2	2	
Nickel	ppm	ASTM D5185m	>2	<1	0	0	
Titanium	ppm	ASTM D5185m		<1	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>25	5	5	7	
Lead	ppm	ASTM D5185m	>45	<1	<1	<1	
Copper	ppm	ASTM D5185m	>85	<1	3	3	
Tin	ppm	ASTM D5185m	>4	<1	0	<1	
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	27	13	17	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	59	64	66	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	802	745	679	
Calcium	ppm	ASTM D5185m	1070	1074	1155	1104	
Phosphorus	ppm	ASTM D5185m	1150	947	890	896	
Zinc	ppm	ASTM D5185m	1270	1158	1164	1113	
Sulfur	ppm	ASTM D5185m	2060	3575	3240	3058	
CONTAMINAN	ITS	method	limit/base	current	history 1	history 2	
Silicon	ppm	ASTM D5185m	>30	5	13	12	
Sodium	ppm	ASTM D5185m		2	9	6	
Potassium	ppm	ASTM D5185m	>20	2	2	2	
INFRA-RED		method	limit/base	current	history 1	history 2	
Soot %	%	*ASTM D7844	>3	0.4	1.6	1.2	
Nitration	Abs/cm	*ASTM D7624	>20	5.8	10.3	10.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3	22.4	20.0	
FLUID DEGRADATION method limit/base current history 1 history 2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.9	16.4	14.5	
Base Number (BN)	mg KOH/g	ASTM D2896		8.4	6.3	6.7	
	99						



OIL ANALYSIS REPORT

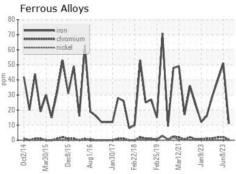


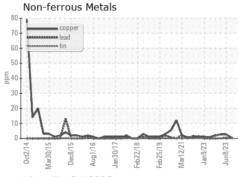


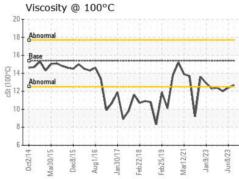
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

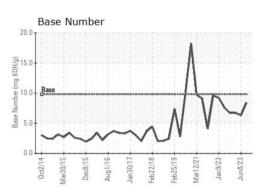
FLUID PROPE	ERTIES	method			history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.4	12.7	12.4	12.0

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

: GFL0086081 : 05893195 Unique Number : 10549005 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 Jul 2023 Diagnosed : 11 Jul 2023

Diagnostician : Wes Davis GFL Environmental - 010 - Stockbridge

1280 Rum Creek Parkway Stockbridge, GA US 30281

Contact: TECHNICIAN ACCOUNT

wcgfldemo@gmail.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) T:

F: