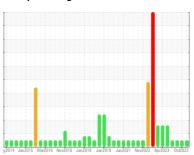


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 10297 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (40 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

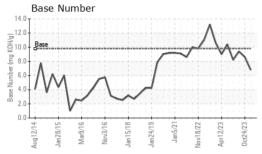
Fluid Condition

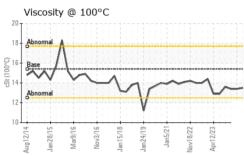
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

@2014 Jan2015 Mar2016 Nov2016 Jan2018 Jan2018 Jan2018 Nov2022 Apr2023 Ont2023							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0090967	GFL0098829	GFL0088387	
Sample Date		Client Info		17 Nov 2023	24 Oct 2023	11 Jul 2023	
Machine Age	hrs	Client Info		708	286	4437	
Oil Age	hrs	Client Info		0	73951	73951	
Oil Changed		Client Info		Changed	Changed	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	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>75	33	38	12	
Chromium	ppm	ASTM D5185m	>5	1	1	<1	
Nickel	ppm	ASTM D5185m	>4	0	<1	0	
Titanium	ppm	ASTM D5185m	>2	<1	<1	0	
Silver	ppm	ASTM D5185m	>2	0	<1	0	
Aluminum	ppm	ASTM D5185m	>15	8	10	3	
Lead	ppm	ASTM D5185m	>25	<1	0	<1	
Copper	ppm	ASTM D5185m	>100	2	2	2	
Tin	ppm	ASTM D5185m	>4	0	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	2	4	10	
Barium	ppm	ASTM D5185m	0	0	20	0	
Molybdenum	ppm	ASTM D5185m	60	55	58	52	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	908	852	907	
Calcium	ppm	ASTM D5185m	1070	1071	1035	1176	
Phosphorus	ppm	ASTM D5185m	1150	938	990	1004	
Zinc	ppm	ASTM D5185m	1270	1214	1126	1247	
Sulfur	ppm	ASTM D5185m	2060	2944	3322	3708	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	6	9	5	
Sodium	ppm	ASTM D5185m		9	10	5	
Potassium	ppm	ASTM D5185m	>20	9	12	4	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	1.2	1.3	0.6	
Nitration	Abs/cm	*ASTM D7624	>20	7.9	7.8	6.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	20.2	19.8	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0	14.9	14.7	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.8	8.6	9.4	
200 (211)				0.0			



OIL ANALYSIS REPORT

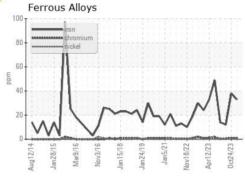


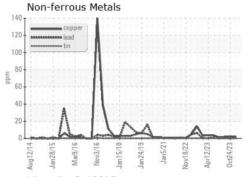


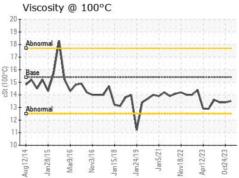
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	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

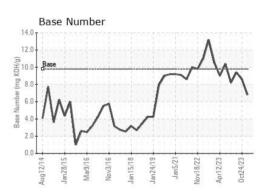
FLUID PROPE	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.4	13.4

GRAPHS













Certificate L2367

Laboratory Test Package : FLEET

Sample No. Lab Number Unique Number : 10753621

: GFL0090967 : 06014477

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Nov 2023 Diagnosed : 22 Nov 2023

Diagnostician : Wes Davis

GFL Environmental - 814 - Little Rock Hauling

4005 Hwy 161 N. Little Rock, AR US 72117

Contact: Brad Manager

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: