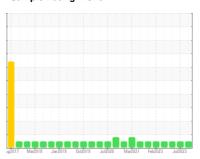


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 10699 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (5 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

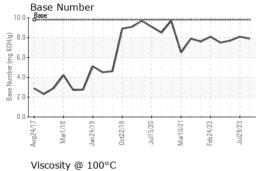
Fluid Condition

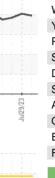
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

JAL) Jug2017 Mar2018 Jan2019 Oct2019 Jul2020 Mar2021 Feb2023 Jul2023							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0094328	GFL0088784	GFL0082825	
Sample Date		Client Info		14 Sep 2023	29 Jul 2023	16 May 2023	
Machine Age	hrs	Client Info		1948	1935	1785	
Oil Age	hrs	Client Info		163	316	162	
Oil Changed		Client Info		Not Changd	Not Changd	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS method limit/base current history1 history2							
Iron	ppm	ASTM D5185m	>100	11	7	12	
Chromium	ppm	ASTM D5185m	>20	<1	0	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	<1	
Titanium	ppm	ASTM D5185m		<1	<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	<1	
Aluminum	ppm	ASTM D5185m	>20	2	<1	2	
Lead	ppm	ASTM D5185m	>40	<1	<1	2	
Copper	ppm	ASTM D5185m	>330	1	1	2	
Tin	ppm	ASTM D5185m	>15	<1	0	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	<1	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	11	14	14	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	63	60	63	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	893	792	803	
Calcium	ppm	ASTM D5185m	1070	1280	1130	1219	
Phosphorus	ppm	ASTM D5185m	1150	1020	929	959	
Zinc	ppm	ASTM D5185m	1270	1277	1159	1180	
Sulfur	ppm	ASTM D5185m	2060	3771	3390	3111	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	4	4	
Sodium	ppm	ASTM D5185m		4	2	8	
Potassium	ppm	ASTM D5185m	>20	2	2	<1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.6	0.5	0.7	
Nitration	Abs/cm	*ASTM D7624	>20	7.9	7.3	8.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	17.9	19.7	
FLUID DEGRADATION method limit/base current history1 history2							
FLUID DEGRAI	NOITAC	method				history2	
					•		
FLUID DEGRAD Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25	current 14.4 7.9	history1 13.7 8.1	history2 15.7 7.7	



OIL ANALYSIS REPORT

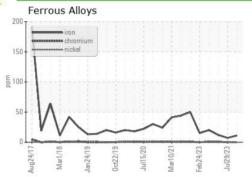


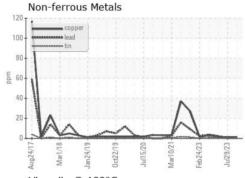


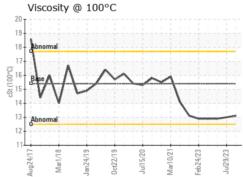
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

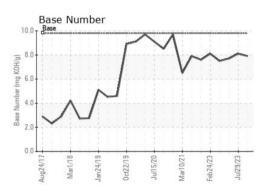
FLUID PROPE	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	13.0	12.9

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10654952 Test Package : FLEET

: GFL0094328 : 05953739

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Sep 2023

Diagnosed : 20 Sep 2023 Diagnostician : Wes Davis

GFL Environmental - 010 - Stockbridge 1280 Rum Creek Parkway

Stockbridge, GA US 30281

Contact: JOSHUA TINKER joshuatinker@gflenv.com

T: F:

* - 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)