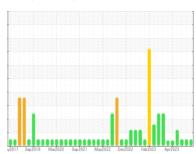


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 10651 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (7 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.

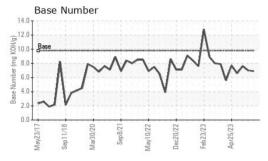
Fluid Condition

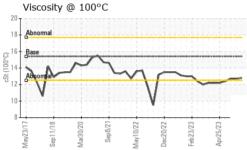
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

#Z017 Sep2018 Med2020 Sep2021 Med2022 Dec2022 Feb2023 Apr2023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0094349	GFL0091373	GFL0088795
Sample Date		Client Info		12 Sep 2023	28 Aug 2023	02 Aug 2023
Machine Age	hrs	Client Info		20134	20006	19849
Oil Age	hrs	Client Info		451	323	166
Oil Changed		Client Info		Changed	Not Changd	Not Changd
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	19	11	5
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	5	2	<1
Lead	ppm	ASTM D5185m	>25	1	0	<1
Copper	ppm	ASTM D5185m	>100	9	7	9
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	8	10	10
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	58	56
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	882	844	770
Calcium	ppm	ASTM D5185m	1070	1197	1099	1092
Phosphorus	ppm	ASTM D5185m	1150	992	974	907
Zinc	ppm	ASTM D5185m	1270	1243	1208	1120
Sulfur	ppm	ASTM D5185m	2060	3434	3495	3250
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	6	5
Sodium	ppm	ASTM D5185m		25	11	11
Potassium	ppm	ASTM D5185m	>20	3	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.5	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.2	8.4	7.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	18.4	17.9
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	13.8	13.2
Base Number (BN)	mg KOH/g	ASTM D2896		6.9	7.0	7.6



OIL ANALYSIS REPORT

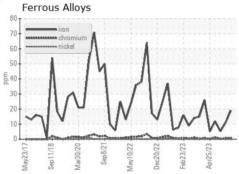


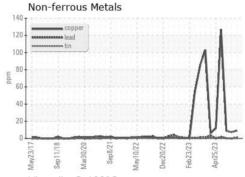


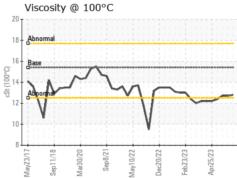
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

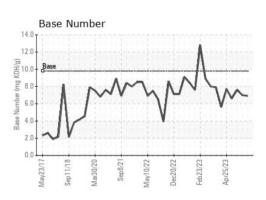
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	12.7	12.7

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

: GFL0094349 : 05951014 Unique Number : 10646973 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Sep 2023 : 16 Sep 2023 Diagnosed Diagnostician : Wes Davis

GFL Environmental - 010 - Stockbridge 1280 Rum Creek Parkway

Stockbridge, GA US 30281

Contact: JOSHUA TINKER joshuatinker@gflenv.com T:

* - 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)

F: