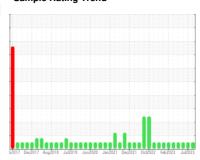


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 10693 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

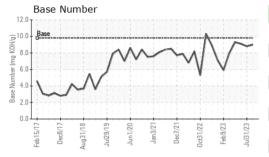
Fluid Condition

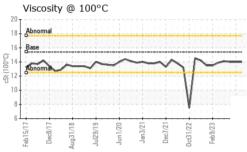
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

62017 Dec2017 Aug/2018 Jul2019 Jun2020 Jun2020 Dec2021 Dec2022 Feb.2023 Jul2023							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0088408	GFL0088392	GFL0088372	
Sample Date		Client Info		23 Aug 2023	31 Jul 2023	12 Jul 2023	
Machine Age	hrs	Client Info		16797	16490	16490	
Oil Age	hrs	Client Info		15448	15448	15448	
Oil Changed		Client Info		N/A	N/A	Not Changd	
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	12	12	13	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	0	0	
Titanium	ppm	ASTM D5185m		0	0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	2	3	
Lead	ppm	ASTM D5185m	>40	0	0	<1	
Copper	ppm	ASTM D5185m	>330	<1	<1	2	
Tin	ppm	ASTM D5185m	>15	0	0	<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	<1	2	3	
Barium	ppm	ASTM D5185m	0	2	0	0	
Molybdenum	ppm	ASTM D5185m	60	75	61	57	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	1155	997	985	
Calcium	ppm	ASTM D5185m	1070	1321	1119	1124	
Phosphorus	ppm	ASTM D5185m	1150	1282	1073	1051	
Zinc	ppm	ASTM D5185m	1270	1471	1296	1326	
Sulfur	ppm	ASTM D5185m	2060	3929	3791	3870	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	7	4	7	
Sodium	ppm	ASTM D5185m		3	3	5	
Potassium	ppm	ASTM D5185m	>20	2	2	1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	5.3	5.7	6.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	18.2	19.0	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2	13.5	14.1	
Base Number (BN)	mg KOH/g	ASTM D2896		9.0	8.8	9.1	
_ acc (an inco (DIV)	mg nong	. 10 1 111 D2000	5.0	0.0	0.0	0.1	



OIL ANALYSIS REPORT

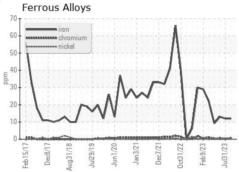


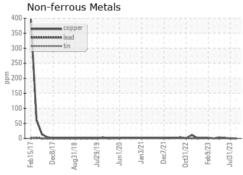


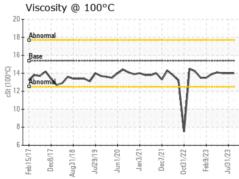
VISUAL		method	limit/base			history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE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

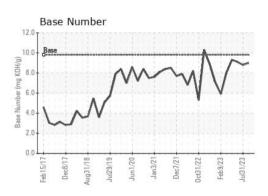
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.0	14.0	

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: GFL0088408 : 05936613 : 10621884

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Aug 2023 : 29 Aug 2023 Diagnosed Diagnostician : Wes Davis

GFL Environmental - 084 - Clarksville 699 Jack Miller Boulevard

Clarksville, TN US 37042

Contact: ROBERT THIBAULT

robert.thibault@gflenv.com T: (931)552-7276

* - 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: (931)572-9674