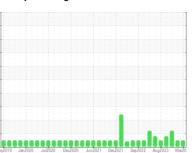


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



CUMMINS 10980

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.

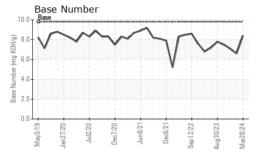
Fluid Condition

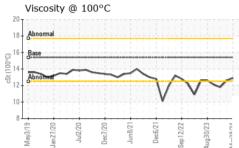
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

•		iy2019 Jan20	20 Jul2020 Dec2020	Jun2021 Dec2021 Sep2022 Au	2023 Mar20		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0116787	GFL0109027	GFL0109090	
Sample Date		Client Info		28 Mar 2024	13 Mar 2024	17 Jan 2024	
Machine Age	hrs	Client Info		13092	13055	12856	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		N/A	Not Changd	N/A	
Sample Status				NORMAL	NORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0	<1.0	<u> </u>	
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	>90	6	11	6	
Chromium	ppm	ASTM D5185m	>20	<1	0	<1	
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		2	<1	2	
Lead	ppm	ASTM D5185m	>40	0	0	0	
Copper	ppm	ASTM D5185m		<1	0	<1	
Tin	ppm	ASTM D5185m		<1	0	0	
Vanadium	ppm	ASTM D5185m	>10	<1	0	<1	
Cadmium	ppm	ASTM D5185m		<1	0	0	
	ррпп		lineit/lenen				
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		18	17	19	
Barium	ppm	ASTM D5185m		0	0	0	
Molybdenum	ppm	ASTM D5185m	60	77	58	57	
Manganese	ppm	ASTM D5185m		<1	0	0	
Magnesium	ppm	ASTM D5185m	1010	1074	775	693	
Calcium	ppm	ASTM D5185m		1420	1172	1081	
Phosphorus	ppm	ASTM D5185m	1150	1165	924	925	
Zinc	ppm	ASTM D5185m	1270	1501	1159	1095	
Sulfur	ppm	ASTM D5185m	2060	4168	3321	2853	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	3	4	
Sodium	ppm	ASTM D5185m		2	1	3	
Potassium	ppm	ASTM D5185m	>20	2	0	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.1	0.3	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	5.2	6.7	7.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.6	17.7	17.2	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.3	12.7	12.6	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	6.6	7.1	
_ 1.00 · 1.0.71001 (D14)	9	52000	3.0	U. .	0.0		



OIL ANALYSIS REPORT

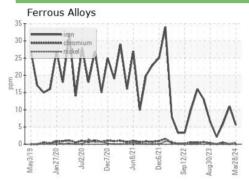


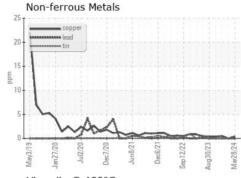


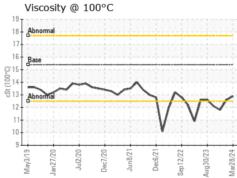
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

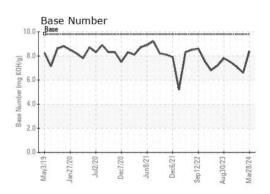
FLUID PROPI	EKIIES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	12.9	12.6	<u></u> 11.8

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06134712 Unique Number: 10954177 Test Package : FLEET

: GFL0116787

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Apr 2024 **Tested** : 02 Apr 2024

Diagnosed : 02 Apr 2024 - Wes Davis

GFL Environmental - 009 - Fairburn 6905 Roosevelt Hwy

Fairburn, GA US 30213

Contact: Eric Jones erjones@gflenv.com T: (678)630-9927

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)