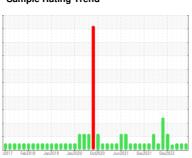


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



CUMMINS 10672

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

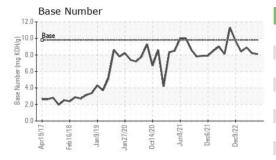
Fluid Condition

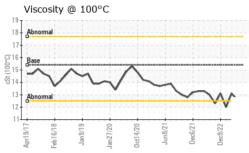
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

c2017 Feb.2018 Jan2019 Jan2020 Oct2020 Jun2021 Dec2021 Dec2022							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0086272	GFL0086230	GFL0086241	
Sample Date		Client Info		09 Aug 2023	13 Jul 2023	07 Jun 2023	
Machine Age	hrs	Client Info		27480	27306	25272	
Oil Age	hrs	Client Info		27480	27306	27134	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS	3	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>75	19	18	19	
Chromium	ppm	ASTM D5185m	>5	<1	1	1	
Nickel	ppm	ASTM D5185m	>4	3	<1	<1	
Titanium	ppm	ASTM D5185m	>2	0	0	0	
Silver	ppm	ASTM D5185m	>2	<1	0	0	
Aluminum	ppm	ASTM D5185m	>15	6	6	4	
Lead	ppm	ASTM D5185m	>25	<1	0	0	
Copper	ppm	ASTM D5185m	>100	2	2	6	
Tin	ppm	ASTM D5185m	>4	0	0	1	
Antimony	ppm	ASTM D5185m					
Vanadium	ppm	ASTM D5185m		0	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	25	24	26	
Barium	ppm	ASTM D5185m	0	2	0	11	
Molybdenum	ppm	ASTM D5185m	60	65	63	49	
Manganese	ppm	ASTM D5185m	0	<1	<1	2	
Magnesium	ppm	ASTM D5185m	1010	726	693	552	
Calcium	ppm	ASTM D5185m	1070	1180	1112	1624	
Phosphorus	ppm	ASTM D5185m	1150	934	864	766	
Zinc	ppm	ASTM D5185m	1270	1128	1057	994	
Sulfur	ppm	ASTM D5185m	2060	3136	2870	2976	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	5	10	
Sodium	ppm	ASTM D5185m		0	6	22	
Potassium	ppm	ASTM D5185m	>20	4	8	24	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.4	0.4	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	5.6	6.6	8.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.7	17.5	22.6	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.4	12.8	21.2	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.1	8.2	8.9	



OIL ANALYSIS REPORT

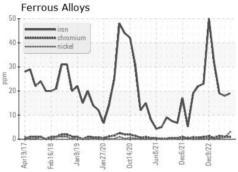


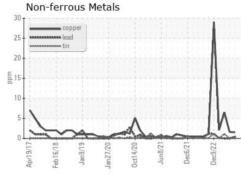


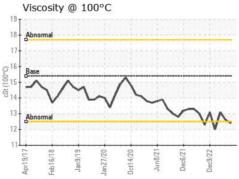
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

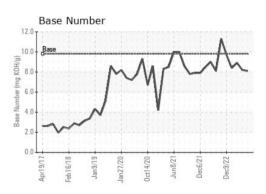
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.4	12.6	13.1

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10603083 Test Package : FLEET

: GFL0086272 : 05923136

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Aug 2023 Diagnosed : 14 Aug 2023 Diagnostician

: 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)