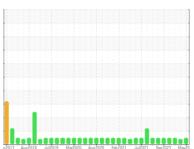


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

CUMMINS 10804

Diesel Engine

DIESEL ENGINE OIL SAE 40 (8 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

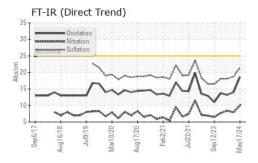
Fluid Condition

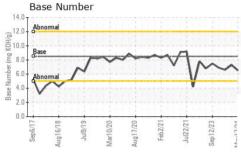
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

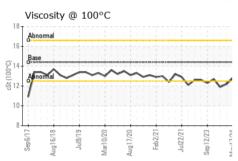
		p2017 Aug20	18 Jul2019 Mar2020 .	Aug2020 Feb2021 Jul2021 Sej	2023 May20	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116819	GFL0109054	GFL0109075
Sample Date		Client Info		17 May 2024	21 Feb 2024	08 Feb 2024
Machine Age	hrs	Client Info		16492	16387	16346
Oil Age	hrs	Client Info		1638	1533	16346
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				NORMAL	ATTENTION	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	0.5
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	>100	5	12	18
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	4	3	11
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	<1	8	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	8	13	12
Barium	ppm	ASTM D5185m	10	0	0	8
Molybdenum	ppm	ASTM D5185m	100	59	57	65
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	450	813	739	728
Calcium	ppm	ASTM D5185m	3000	1091	1014	1004
Phosphorus	ppm	ASTM D5185m	1150	900	922	808
Zinc	ppm	ASTM D5185m	1350	1138	1065	1045
Sulfur	ppm	ASTM D5185m	4250	2962	2633	2697
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	3
Sodium	ppm	ASTM D5185m	>216	2	4	0
Potassium	ppm	ASTM D5185m	>20	7	4	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.5	0.7
Nitration	Abs/cm	*ASTM D7624	>20	10.0	7.9	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	18.7	18.1
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.6	14.0	13.2
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.5	7.3	6.6
, ,	- 0					



OIL ANALYSIS REPORT



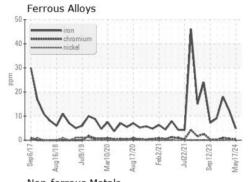


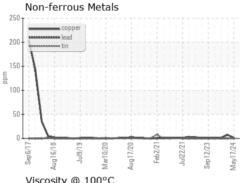


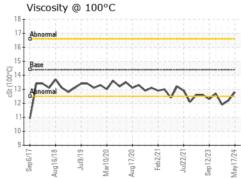
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

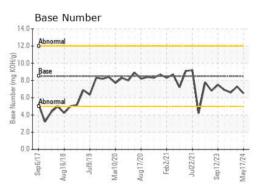
FLUID PROPI	ERIIES	method			riistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	14.4	12.8	12.2	11.9

GRAPHS













Certificate 12367

Sample No.

Lab Number : 06188729 Unique Number : 11045481 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0116819 Received : 23 May 2024

Tested : 24 May 2024

Diagnosed : 24 May 2024 - Wes Davis

6905 Roosevelt Hwy Fairburn, GA

GFL Environmental - 009 - Fairburn

US 30213 Contact: Eric Jones erjones@gflenv.com

T: (678)630-9927

* - 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)