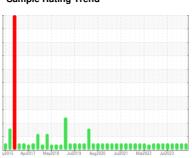


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



2517 PETERBILD 365

Component

Diesel Engine

DIESEL ENGINE OIL SAE 40 (48 QTS)

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

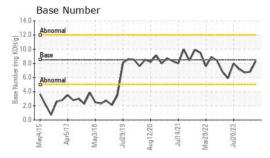
Fluid Condition

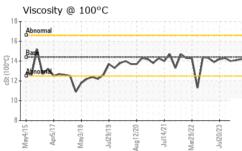
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

n2015 Apr2017 Mmy2018 Juc2019 Aug2020 Juc2021 Mmz2022 Juc2023							
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0094750	GFL0103226	GFL0094662	
Sample Date		Client Info		02 Feb 2024	09 Jan 2024	06 Nov 2023	
Machine Age	hrs	Client Info		23875	23660	23059	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0	
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	>165	7	9	18	
Chromium	ppm	ASTM D5185m	>5	0	0	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	<1	
Titanium	ppm	ASTM D5185m	>2	0	0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	1	<1	2	
Lead	ppm	ASTM D5185m	>150	0	2	1	
Copper	ppm	ASTM D5185m	>90	0	<1	<1	
Tin	ppm	ASTM D5185m	>5	0	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	<1	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	250	2	2	4	
Barium	ppm	ASTM D5185m	10	0	0	5	
Molybdenum	ppm	ASTM D5185m	100	61	58	66	
Manganese	ppm	ASTM D5185m		0	0	<1	
Magnesium	ppm	ASTM D5185m	450	1052	971	950	
Calcium	ppm	ASTM D5185m	3000	1164	1115	1153	
Phosphorus	ppm	ASTM D5185m	1150	1148	1001	1128	
Zinc	ppm	ASTM D5185m	1350	1347	1326	1251	
Sulfur	ppm	ASTM D5185m	4250	3428	2941	3226	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>35	4	4	6	
Sodium	ppm	ASTM D5185m	>216	3	4	2	
Potassium	ppm	ASTM D5185m	>20	<1	<1	3	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>7.5	0.3	0.5	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	7.8	11.2	11.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	23.0	23.5	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	20.8	21.0	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.3	6.8	6.7	
. ,							



OIL ANALYSIS REPORT

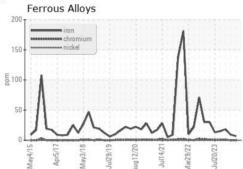


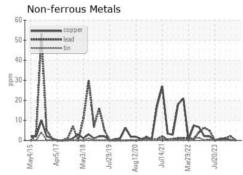


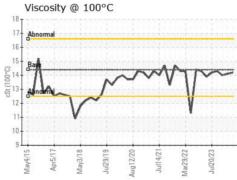
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

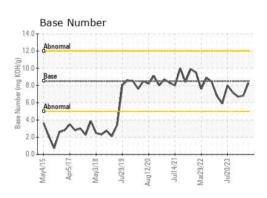
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	14.4	14.2	14.1	14.0

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10861658 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0094750 : 06079567

Recieved Diagnosed Diagnostician : Wes Davis

: 05 Feb 2024 : 06 Feb 2024 GFL Environmental - 001 - Raleigh(CNG)

3741 Conquest Drive Garner, NC US 27529

Contact: Craig Johnson craig.johnson@gflenv.com T: (919)662-7100

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)

F: (919)662-7130