

# **OIL ANALYSIS REPORT**

# Sample Rating Trend



**NORMAL** 



Machine Id

# **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.

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the oil.

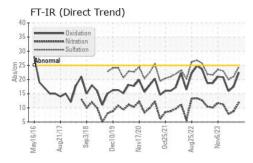
## **Fluid Condition**

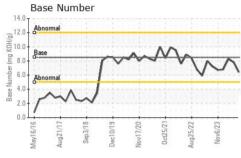
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

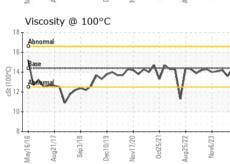
	v/2016 Aug/2017 Sep/2018 Dec/2019 New/2020 Occ2021 Aug/2022 New/2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0117420	GFL0117427	GFL0094750	
Sample Date		Client Info		26 Jun 2024	03 Jun 2024	02 Feb 2024	
Machine Age	hrs	Client Info		25025	24796	23875	
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	12	8	7	
Chromium	ppm	ASTM D5185m	>5	<1	0	0	
Nickel	ppm	ASTM D5185m	>4	0	0	0	
Titanium	ppm	ASTM D5185m	>2	<1	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	1	1	1	
Lead	ppm	ASTM D5185m	>150	4	0	0	
Copper	ppm	ASTM D5185m	>90	<1	<1	0	
Tin	ppm	ASTM D5185m	>5	0	<1	0	
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	250	5	7	2	
Barium	ppm	ASTM D5185m	10	0	<1	0	
Molybdenum	ppm	ASTM D5185m	100	61	61	61	
Manganese	ppm	ASTM D5185m	450	<1	<1	0	
Magnesium	ppm	ASTM D5185m	450	1067	925	1052	
Calcium Phosphorus	ppm	ASTM D5185m	3000 1150	1328 1170	1142 1110	1164 1148	
Zinc	ppm	ASTM D5185m ASTM D5185m	1350	1436	1259	1347	
Sulfur	ppm	ASTM D5105m	4250	4045	3466	3428	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>35	4	4	4	
Sodium	ppm	ASTM D5185m	>216	4	3	3	
Potassium	ppm	ASTM D5185m	>20	0	2	<1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>7.5	0.4	0.4	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	11.9	8.8	7.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.5	21.0	20.0	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.5	17.5	15.9	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.4	7.8	8.3	



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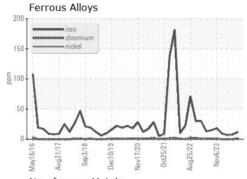


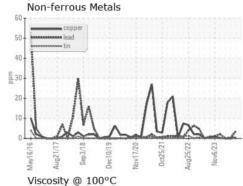


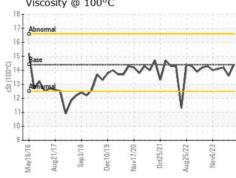
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

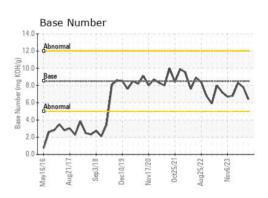
FLUID PROPI	EKIIES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	14.4	14.4	13.6	14.2

# **GRAPHS**













Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: GFL0117420 Lab Number : 06224324 Unique Number : 11102521

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Jul 2024

**Tested** : 02 Jul 2024 Diagnosed : 02 Jul 2024 - Wes Davis

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