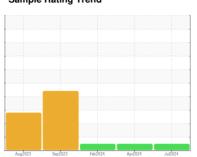


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

822052 PETERBILT 320

Diesel Engine

TIER ONE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

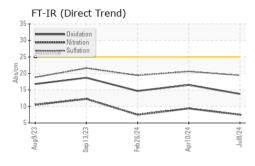
Fluid Condition

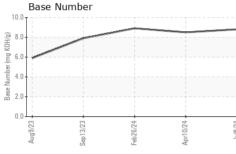
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

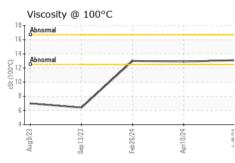
		Aug2023	Sep 2023	Feb2024 Apr2024	Jul2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0115234	GFL0110980	GFL0102221
Sample Date		Client Info		08 Jul 2024	10 Apr 2024	26 Feb 2024
Machine Age	hrs	Client Info		14446	14039	13887
Oil Age	hrs	Client Info		543	13	100
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	1.6
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	>110	13	21	12
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		2	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		3	7	6
Lead	ppm	ASTM D5185m	>45	0	<1	0
Copper	ppm	ASTM D5185m		<1	4	2
Tin	ppm	ASTM D5185m	>4	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		7	9	10
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		56	57	55
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		858	898	858
Calcium	ppm	ASTM D5185m		1228	1131	1020
Phosphorus	ppm	ASTM D5185m		1034	1047	1017
Zinc	ppm	ASTM D5185m		1242	1275	1201 3027
Sulfur	ppm	ASTM D5185m	1: 1: 0	3632	3641	
CONTAMINAN		method	limit/base	current	history1	history2
Silicon Sodium	ppm	ASTM D5185m ASTM D5185m	>30	9	8 7	7
Potassium	ppm	ASTM D5185m	> 20	6	18	18
	ppm					
INFRA-RED	0/	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.8	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.5	9.4	7.5
Sulfation	Abs/.1mm	*ASTM D7415		19.4	20.6	19.4
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8	16.5	14.7
Base Number (BN)	mg KOH/g	ASTM D2896		8.8	8.5	8.9



OIL ANALYSIS REPORT



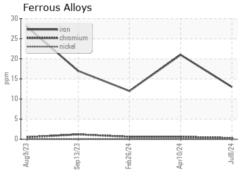


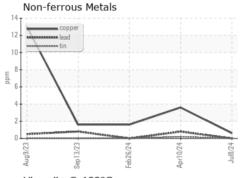


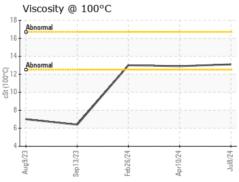
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

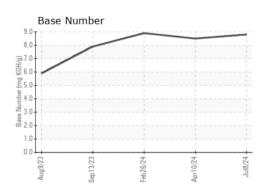
FLUID PROP	ERITES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445		13.1	12.9	13.0

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06234292

: GFL0115234 Unique Number : 11123126 Test Package : FLEET

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

Received : 11 Jul 2024 **Tested** : 12 Jul 2024 Diagnosed

: 12 Jul 2024 - Wes Davis

GFL Environmental - 642- Grand Rapids Hauling

5826 Alden Nash Ave SE Lowell, MI US 49331

Contact: Josh Arnett joshuaarnett@gflenv.com

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)

Report Id: GFL642 [WUSCAR] 06234292 (Generated: 07/12/2024 16:06:23) Rev: 1

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