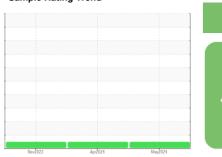


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

829098 PETERBILT 320

Diesel Engine

TIER 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

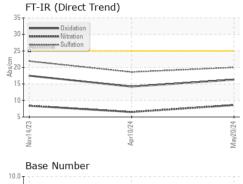
Fluid Condition

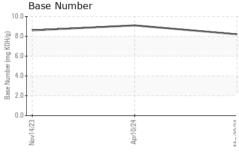
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

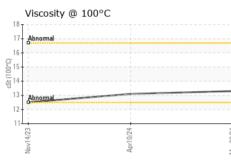
	Nov2023 Apr2024 May2024						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0115301	GFL0102224	GFL0061438	
Sample Date		Client Info		20 May 2024	10 Apr 2024	14 Nov 2023	
Machine Age	hrs	Client Info		18360	18121	0	
Oil Age	hrs	Client Info		241	0	600	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>110	29	16	19	
Chromium	ppm	ASTM D5185m	>4	1	1	<1	
Nickel	ppm	ASTM D5185m	>2	0	0	2	
Titanium	ppm	ASTM D5185m		<1	0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>25	3	3	2	
Lead	ppm	ASTM D5185m	>45	3	<1	2	
Copper	ppm	ASTM D5185m	>85	1	2	9	
Tin	ppm	ASTM D5185m	>4	<1	<1	<1	
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		14	16	91	
Barium	ppm	ASTM D5185m		0	0	<1	
Molybdenum	ppm	ASTM D5185m		57	56	73	
Manganese	ppm	ASTM D5185m		<1	<1	<1	
Magnesium	ppm	ASTM D5185m		889	868	833	
Calcium	ppm	ASTM D5185m		1133	1113	1158	
Phosphorus	ppm	ASTM D5185m		1062	1065	908	
Zinc	ppm	ASTM D5185m		1248	1235	1122	
Sulfur	ppm	ASTM D5185m		3513	3864	2985	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	17	15	25	
Sodium	ppm	ASTM D5185m		6	4	1	
Potassium	ppm	ASTM D5185m		2	2	4	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.5	0.2	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	8.6	6.5	8.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	18.6	21.9	
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	14.2	17.5	
Base Number (BN)	mg KOH/g	ASTM D2896		8.2	9.1	8.6	

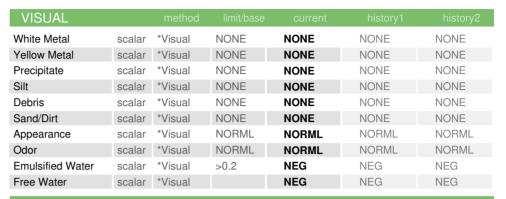


OIL ANALYSIS REPORT



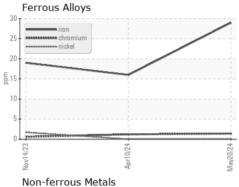


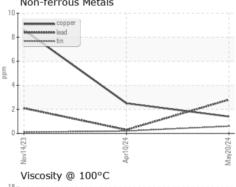


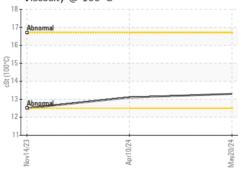


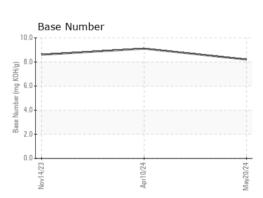
FLUID PROPERTIES		method			history2	
Visc @ 100°C	cSt	ASTM D445	13.3	13.1	12.5	

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0115301 Lab Number : 06196481 Unique Number : 11058604 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 31 May 2024 **Tested** : 03 Jun 2024

Diagnosed : 03 Jun 2024 - Wes Davis

GFL Environmental - 642- Grand Rapids Hauling

5826 Alden Nash Ave SE Lowell, MI US 49331

Contact: Josh Arnett joshuaarnett@gflenv.com T:

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