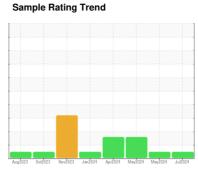


OIL ANALYSIS REPORT

(YA179733) PETERBILT 433001

Natural Gas Engine

DIESEL ENGINE OIL SAE 40 (--- 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

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

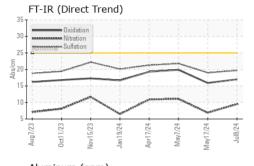
Fluid Condition

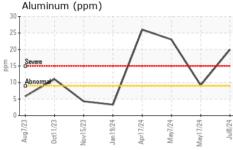
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

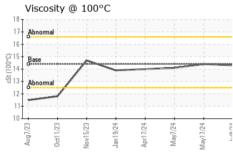
Augl2023 Oct0223 Nov2023 Jan2024 Apr2024 May2024 May2024 Jul2024									
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0109620	GFL0109641	GFL0109653			
Sample Date		Client Info		08 Jul 2024	17 May 2024	07 May 2024			
Machine Age	hrs	Client Info		1574	1241	1157			
Oil Age	hrs	Client Info		417	84	830			
Oil Changed		Client Info		Changed	Not Changd	Changed			
Sample Status				NORMAL	NORMAL	ABNORMAL			
CONTAMINAT	ION	method	limit/base	current	history1	history2			
Water		WC Method	>0.1	NEG	NEG	NEG			
WEAR METAL	S	method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>50	10	6	21			
Chromium	ppm	ASTM D5185m	>4	2	1	3			
Nickel	ppm	ASTM D5185m	>2	0	0	<1			
Titanium	ppm	ASTM D5185m		0	0	<1			
Silver	ppm	ASTM D5185m	>3	0	0	0			
Aluminum	ppm	ASTM D5185m	>9	20	9	23			
Lead	ppm	ASTM D5185m	>30	0	<1	2			
Copper	ppm	ASTM D5185m	>35	1	<1	4			
Tin	ppm	ASTM D5185m	>4	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	19	46	12			
Barium	ppm	ASTM D5185m	10	0	0	0			
Molybdenum	ppm	ASTM D5185m	100	52	51	50			
Manganese	ppm	ASTM D5185m		<1	<1	1			
Magnesium	ppm	ASTM D5185m	450	615	667	734			
Calcium	ppm	ASTM D5185m	3000	1637	1653	1219			
Phosphorus	ppm	ASTM D5185m	1150	808	843	626			
Zinc	ppm	ASTM D5185m	1350	972	1031	894			
Sulfur	ppm	ASTM D5185m	4250	2849	3187	2492			
CONTAMINAN	TS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>+100	17	13	▲ 56			
Sodium	ppm	ASTM D5185m	>216	4	2	4			
Potassium	ppm	ASTM D5185m	>20	62	29	108			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844		0.1	0	0.1			
Nitration	Abs/cm	*ASTM D7624	>20	9.5	6.9	11.1			
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	19.0	21.8			
FLUID DEGRA	DATION	method	limit/base	current	history1	history2			
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	15.9	19.9			
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.5	7.9	4.5			
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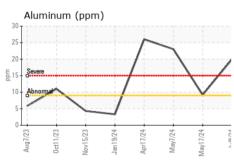


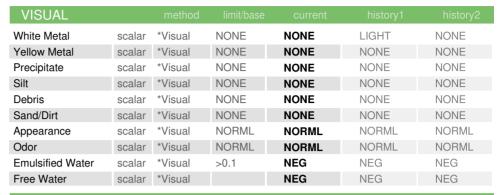
OIL ANALYSIS REPORT





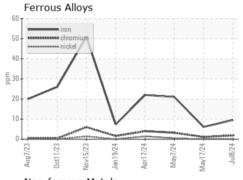


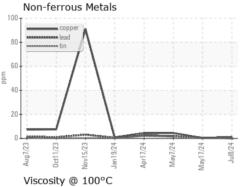


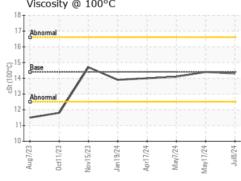


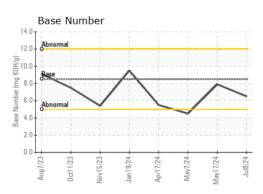
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	14.4	14.3	14.4	14.1

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0109620 Lab Number : 06231316 Unique Number : 11114809

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 09 Jul 2024 **Tested**

: 10 Jul 2024 Diagnosed : 10 Jul 2024 - Wes Davis

GFL Environmental - 331 - Columbus

180 Ada Moore Rd Columbus, NC US 28722

Contact: Matt Segars matt.segars@gflenv.com T: (800)207-6618

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)

Report Id: GFL331 [WUSCAR] 06231316 (Generated: 07/10/2024 10:45:34) Rev: 1

Submitted By: Matt Segars

F: (252)617-2494