

PROBLEM SUMMARY

Sample Rating Trend

DIRT



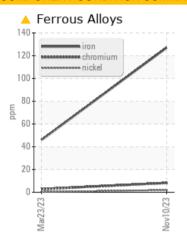
PETERBILT 2405

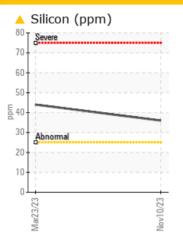
Component

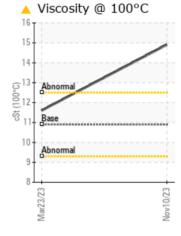
Diesel Engine

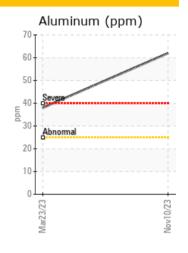
DIESEL ENGINE OIL SAE 5W30 (44 QTS)

COMPONENT CONDITION SUMMARY









RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status				ABNORMAL	NORMAL				
Iron	ppm	ASTM D5185m	>100	<u> </u>	46				
Silicon	ppm	ASTM D5185m	>25	△ 36	44				
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	△ 0.0	5.8				
Visc @ 100°C	cSt	ASTM D445	10.9	14.9	11.6				

Customer Id: MABEDE Sample No.: WC0876678 Lab Number: 06017227 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED) ACTIONS			
Action	Status	Date	Done By	Description
Change Fluid			?	Oil and filter change at the time of sampling has been noted.
Change Filter			?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

23 Mar 2023 Diag: Wes Davis

NORMAL



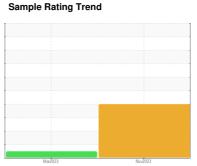
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. Metal levels are typical for a components first oil change. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

DT Sam



DIRT



PETERBILT 2405

Component

Diesel Engine

DIESEL ENGINE OIL SAE 5W30 (44 QTS)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

Cylinder, crank, or cam shaft wear is indicated.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. 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.

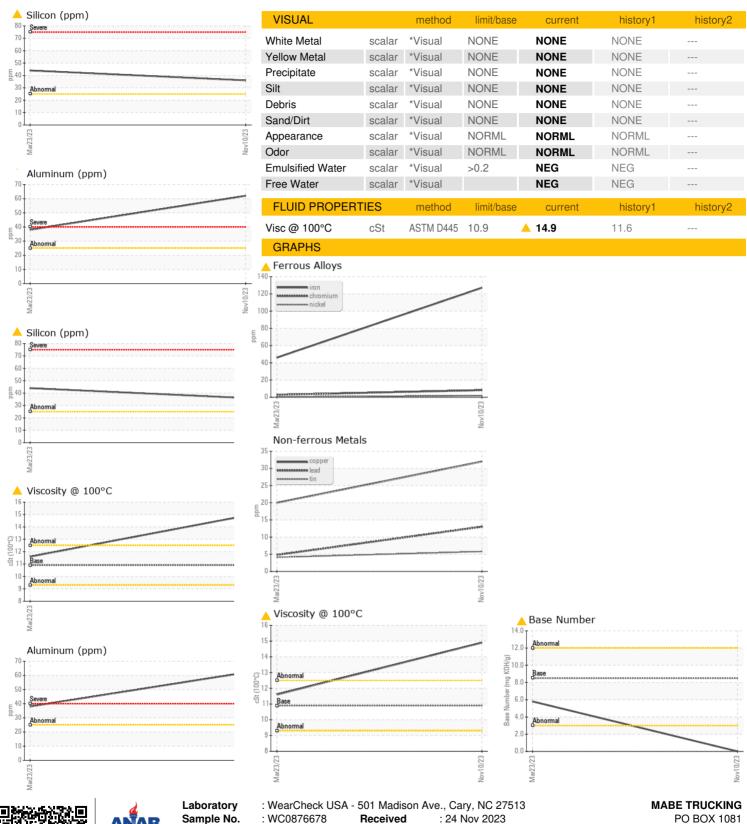
Fluid Condition

The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

			Mar2023	Nov2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0876678	WC0786075	
Sample Date		Client Info		10 Nov 2023	23 Mar 2023	
Machine Age	mls	Client Info		133875	52788	
Oil Age	mls	Client Info		50000	52788	
Oil Changed		Client Info		Changed	Not Changd	
Sample Status				ABNORMAL	NORMAL	
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<u> </u>	46	
Chromium	ppm	ASTM D5185m	>20	8	3	
Nickel	ppm	ASTM D5185m	>2	2	<1	
Titanium	ppm	ASTM D5185m	>2	<1	0	
Silver	ppm	ASTM D5185m	>2	<1	<1	
Aluminum	ppm	ASTM D5185m	>25	62	38	
Lead	ppm	ASTM D5185m	>40	13	5	
Copper	ppm	ASTM D5185m	>330	32	20	
Tin	ppm	ASTM D5185m	>15	6	4	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	16	33	
Barium	ppm	ASTM D5185m	10	0	4	
Molybdenum	ppm	ASTM D5185m	100	66	65	
Manganese	ppm	ASTM D5185m		7	6	
Magnesium	ppm	ASTM D5185m	450	507	492	
Calcium	ppm	ASTM D5185m	3000	1703	1861	
Phosphorus	ppm	ASTM D5185m	1150	844	1016	
Zinc	ppm	ASTM D5185m	1350	1262	1305	
Sulfur	ppm	ASTM D5185m	4250	2880	3271	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<u>^</u> 36	44	
Sodium	ppm	ASTM D5185m		5	4	
Potassium	ppm	ASTM D5185m	>20	175	98	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	22.3	9.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	37.5	23.3	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	55.8	21.5	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<u> </u>	5.8	



OIL ANALYSIS REPORT





Sample No. Lab Number **Unique Number**

: 06017227

: WC0876678 : 10756371 Test Package : FLEET

Received : 24 Nov 2023 Diagnosed : 29 Nov 2023

: Jonathan Hester Diagnostician

Contact: MAINTENANCE maintenancemanager@mabetrucking.com

Contact/Location: MAINTENANCE ? - MABEDE

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)

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