



OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
PETERBILT 379 (S/N 1XPXP4EX9PD890216)
Component
1 Differential
Fluid
GEAR OIL SAE 75W90 (--- GAL)

DIAGNOSIS

▲ Recommendation

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

▲ Wear

Copper ppm levels are severe. Tin ppm levels are abnormal. Thrust washer and/or bearing/bushing wear is indicated.

▲ Contamination

There is a moderate concentration of dirt present in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0893921	---	---
Sample Date	Client Info			05 Jun 2024	---	---
Machine Age	hrs	Client Info		100780	---	---
Oil Age	hrs	Client Info		100780	---	---
Oil Changed	Client Info			N/A	---	---
Sample Status				SEVERE	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>.2	NEG	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	393	---	---
Chromium	ppm	ASTM D5185m	>10	2	---	---
Nickel	ppm	ASTM D5185m	>10	2	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	1	---	---
Lead	ppm	ASTM D5185m	>25	0	---	---
Copper	ppm	ASTM D5185m	>100	▲ 1935	---	---
Tin	ppm	ASTM D5185m	>10	▲ 24	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
Cadmium	ppm	ASTM D5185m		0	---	---

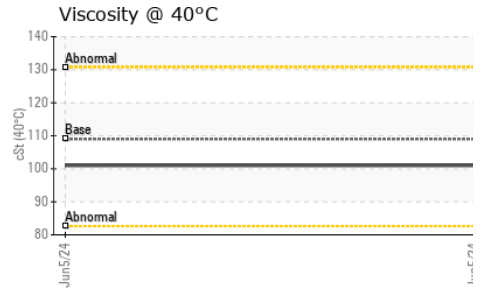
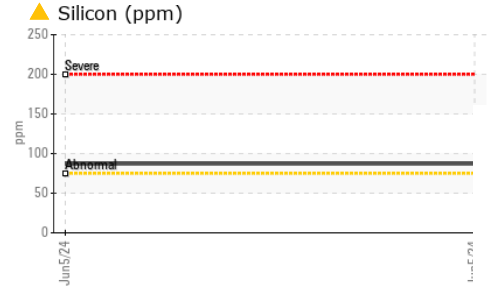
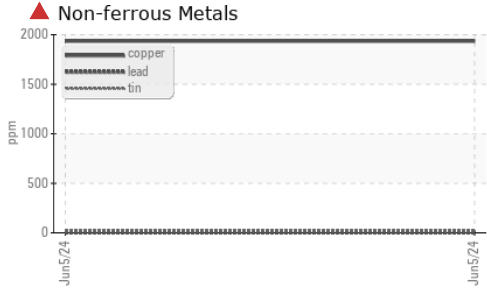
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	249	---	---
Barium	ppm	ASTM D5185m	200	4	---	---
Molybdenum	ppm	ASTM D5185m	12	0	---	---
Manganese	ppm	ASTM D5185m		21	---	---
Magnesium	ppm	ASTM D5185m	12	3	---	---
Calcium	ppm	ASTM D5185m	150	81	---	---
Phosphorus	ppm	ASTM D5185m	1650	1327	---	---
Zinc	ppm	ASTM D5185m	125	50	---	---
Sulfur	ppm	ASTM D5185m	22500	22943	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ 87	---	---
Sodium	ppm	ASTM D5185m		12	---	---
Potassium	ppm	ASTM D5185m	>20	8	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>.2	NEG	---	---
Free Water	scalar	*Visual		NEG	---	---



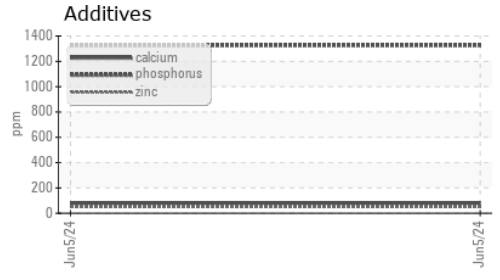
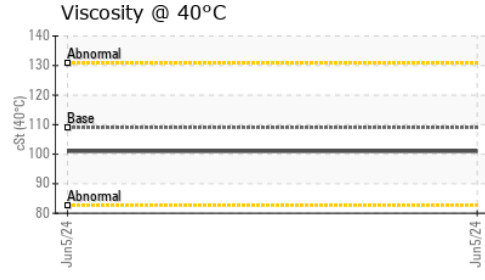
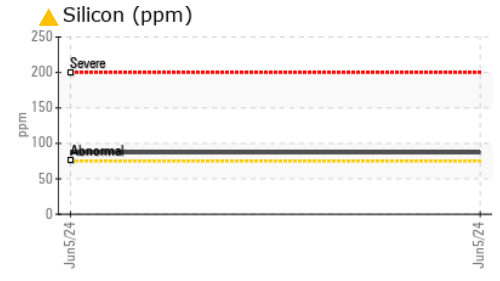
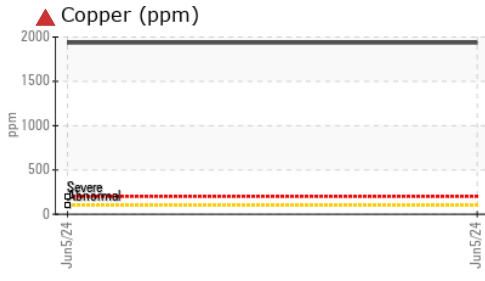
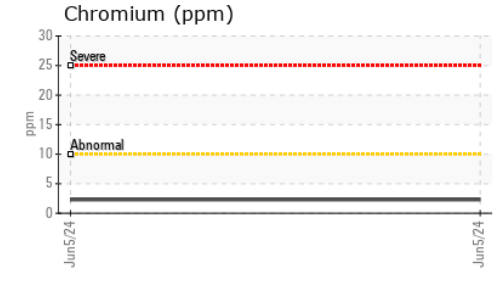
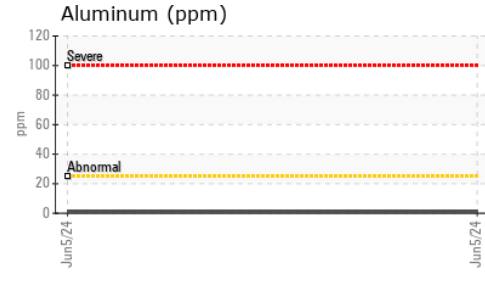
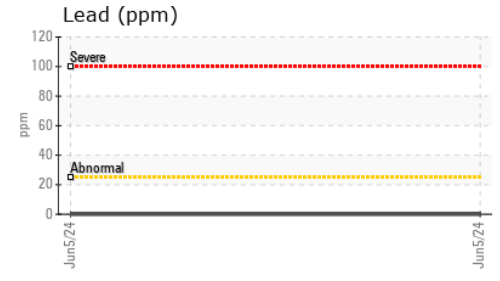
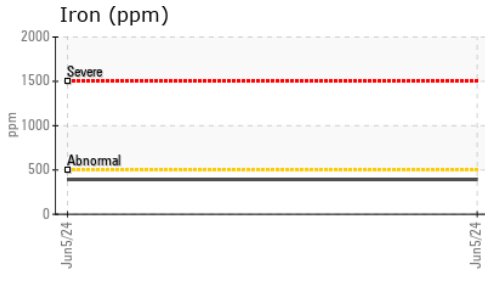
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	109	101	---	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0893921 **Received** : 10 Jun 2024
Lab Number : **06205178** **Tested** : 12 Jun 2024
Unique Number : 11072639 **Diagnosed** : 12 Jun 2024 - Angela Borella
Test Package : MOB 1

MANGUMS INC
 P.O. BOX 7177
 WILSON, NC
 US 27895

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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