



OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Area
ANDREWS
 Machine Id
PETERBILT 86
 Component
Diesel Engine
 Fluid
CHEVRON 15W40 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	KL0012206	---	---
Sample Date	Client Info	08 Aug 2023	---	---
Machine Age	hrs	Client Info	38027	---
Oil Age	hrs	Client Info	0	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	---
Glycol	WC Method		NEG	---

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>110	10	---
Chromium	ppm	ASTM D5185m	>4	<1	---
Nickel	ppm	ASTM D5185m	>2	<1	---
Titanium	ppm	ASTM D5185m		<1	---
Silver	ppm	ASTM D5185m	>2	0	---
Aluminum	ppm	ASTM D5185m	>25	3	---
Lead	ppm	ASTM D5185m	>45	1	---
Copper	ppm	ASTM D5185m	>85	1	---
Tin	ppm	ASTM D5185m	>4	<1	---
Vanadium	ppm	ASTM D5185m		0	---
Cadmium	ppm	ASTM D5185m		0	---

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		171	---
Barium	ppm	ASTM D5185m		0	---
Molybdenum	ppm	ASTM D5185m		14	---
Manganese	ppm	ASTM D5185m		<1	---
Magnesium	ppm	ASTM D5185m		72	---
Calcium	ppm	ASTM D5185m		1996	---
Phosphorus	ppm	ASTM D5185m		910	---
Zinc	ppm	ASTM D5185m		1111	---
Sulfur	ppm	ASTM D5185m		3644	---

CONTAMINANTS

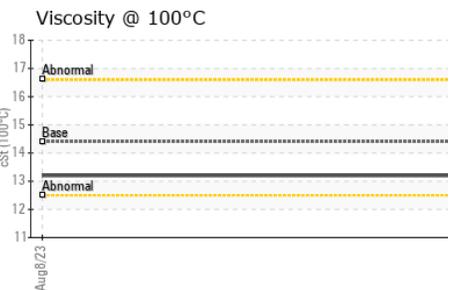
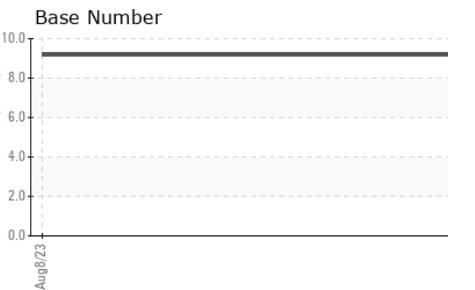
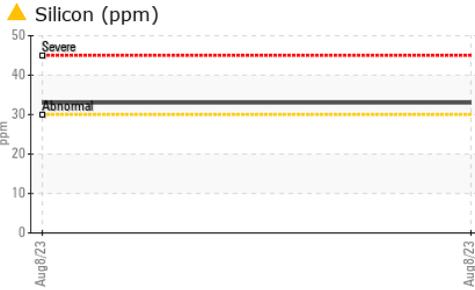
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	▲ 33	---
Sodium	ppm	ASTM D5185m	>50	<1	---
Potassium	ppm	ASTM D5185m	>20	6	---

INFRA-RED

method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	7.2	---
Sulfation	Abs./1mm	*ASTM D7415	>30	21.5	---



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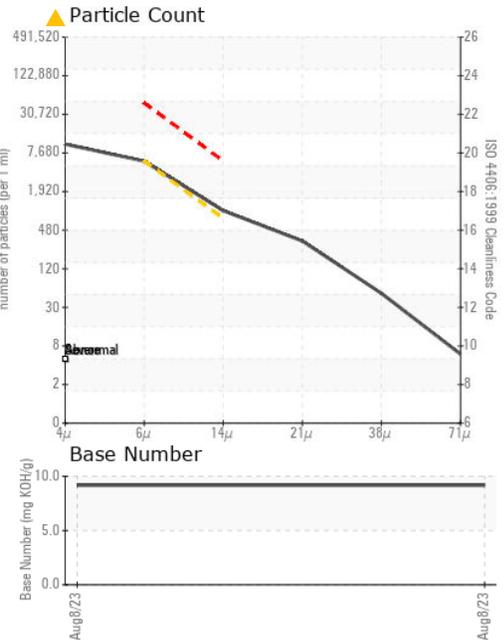
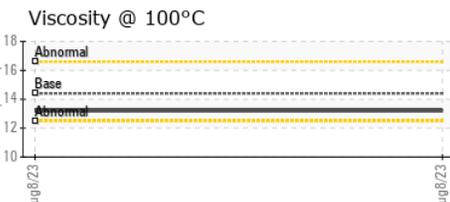
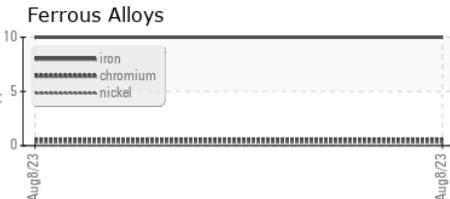
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		9152	---	---
Particles >6µm	ASTM D7647	>5000	4986	---	---
Particles >14µm	ASTM D7647	>640	▲ 848	---	---
Particles >21µm	ASTM D7647	>160	▲ 286	---	---
Particles >38µm	ASTM D7647	>40	▲ 44	---	---
Particles >71µm	ASTM D7647	>10	5	---	---
Oil Cleanliness	ISO 4406 (c)	>19/16	▲ 19/17	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	18.2	---	---
Base Number (BN)	mg KOH/g ASTM D2896		9.18	---	---

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	>0.2	NEG	---	---
Free Water	scalar *Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D445	14.4	13.2	---	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0012206 **Received** : 21 Aug 2023
Lab Number : **05929868** **Diagnosed** : 23 Aug 2023
Unique Number : 10615139 **Diagnostician** : Jonathan Hester
Test Package : MOB 2 (Additional Tests: PrtCount)

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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)