



MOBILE OIL ANALYSIS REPORT

CONTAMINATION	NORMAL
OIL CONDITION	NORMAL
WEAR	NORMAL

82 - Diesel Engine

Unit Make : PETERBILT

Unit Model : 379

Comp Make : CATERPILLAR

Comp Model : C-12

Serial No : 1XP5DU9XXWP472059

Cust. Ref No. : {n/a}

Stub No. : KL-M2335579

Date Rec'd : Aug 16, 2016

Sample Date : Jul 23, 2016

Diagnostician : Wes Davis

RECOMMENDATION

Resample at the next service interval to monitor.

Sample Date			05/24/16	Current	UOM
Time on Unit			1147270	1160516	mls
Time on Oil			10000	13000	mls
Time on Fltr			10000	13000	mls
Oil Maint.			changed	not chg	---
Filter Maint.			changed	not chg	---

CONTAMINATION

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Sample Date			05/24/16	Current	Abn
Silicon			14	9.8	25
Fuel (%)			<2.0	<2.0	5
Glycol			---	---	0.06
Water (%)			<0.1	<0.1	0.2
Soot (%)			0.2	0.1	3
>4µm(c)			192	948	---
>6µm(c)			104	516	---
>14µm(c)			17	88	---
>21µm(c)			6	29	---
>38µm(c)			0	4	---
>70µm(c)			0	0	---
ISO 4406(c)			14/11	16/14	---

OIL CONDITION

Oil Type: 40 QTS of SHELL ROTELLA T 15W40

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

Sample Date			05/24/16	Current	Base
Potassium			7.0	5.6	0.0
Boron			62	22	316
Barium			0.2	0.1	0.0
Calcium			2096	2347	2292
Magnesium			42	18	24
Molybdenum			8.2	1.3	1.2
Sodium			5.2	6.0	2.4
Phosphorus			941	867	1064
Sulfur			3596	3088	4996
Zinc			988	1058	1160
Visc 100°C (cSt)			15.9	16.26	15.7
BN (mg/KOH/g)			8.35	7.21	10.1

WEAR

All component wear rates are normal.

Sample Date			05/24/16	Current	Abn
PQ			---	---	---
Iron			21	32	100
Nickel			1.1	1.0	2
Chromium			1.0	1.5	20
Titanium			0.0	0.0	2
Copper			2.2	9.6	330
Aluminum			1.8	1.4	25
Tin			0.6	6.0	15
Lead			0.6	1.2	40

NOTE: all elemental values reported in parts per million (ppm).