

OIL ANALYSIS REPORT

Sample Number

Sample Date

Machine Age

Oil Changed

Molybdenum

Manganese

Magnesium

Calaium

Oxidation

Oil Age

Sample Rating Trend

Client Info

Client Info

Client Info

Client Info

Client Info

ASTM D5185m O

ASTM D5185m O

ASTM D5185m

ACTM DE10Em

Abs/.1mm *ASTM D7414 >25

Base Number (BN) mg KOH/g ASTM D2896 9.4

ppm

ppm

ppm

hrs

hrs

GLYCOL

GLYCOL

PCA0017551

09 Nov 2021 22 Feb 2021

0

30284

Changed

32

<1

674

1500

PCA0038275

30871

30871

Changed

61

<1

926

1100

19.6

KEMP QUARRIES / RIVER VALLEY MATERIALS - FT. SMITH TRANS LOAD 01 Machine Id WL082

Component **Diesel Engine**

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

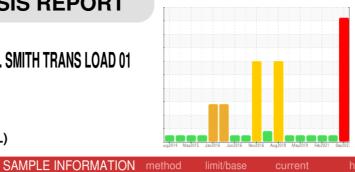
The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. There is a high concentration of glycol present in the oil.

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.



PCA0062704

23 Sep 2022

31388

31388

Changed

Sample Status				SEVERE	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	48	58	45
Chromium	ppm	ASTM D5185m	>20	1	<1	1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>25	4	2	3
Lead	ppm	ASTM D5185m	>40	27	13	11
Copper	ppm	ASTM D5185m	>330	<u>451</u>	54	26
Tin	ppm	ASTM D5185m	>15	2	<1	0
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	11	0	33
Barium	ppm	ASTM D5185m	0	0	0	0

Calcium	ppm	ASTM D5185M		1123	1166	1520
Phosphorus	ppm	ASTM D5185m		1041	972	769
Zinc	ppm	ASTM D5185m		1233	1202	915
Sulfur	ppm	ASTM D5185m		3572	2457	2187
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	13	7	15
Sodium	ppm	ASTM D5185m		△ 335	61	60
Potassium	ppm	ASTM D5185m	>20	<u> </u>	47	41
Glycol	%	*ASTM D2982		0.10	0.0	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.2	1.3	0.8
Nitration	Abs/cm	*ASTM D7624	>20	14.6	11.8	14.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.9	24.2	26
FLUID DEGRAI	OITAC	method	limit/base	current	history1	history2

70

<1

903

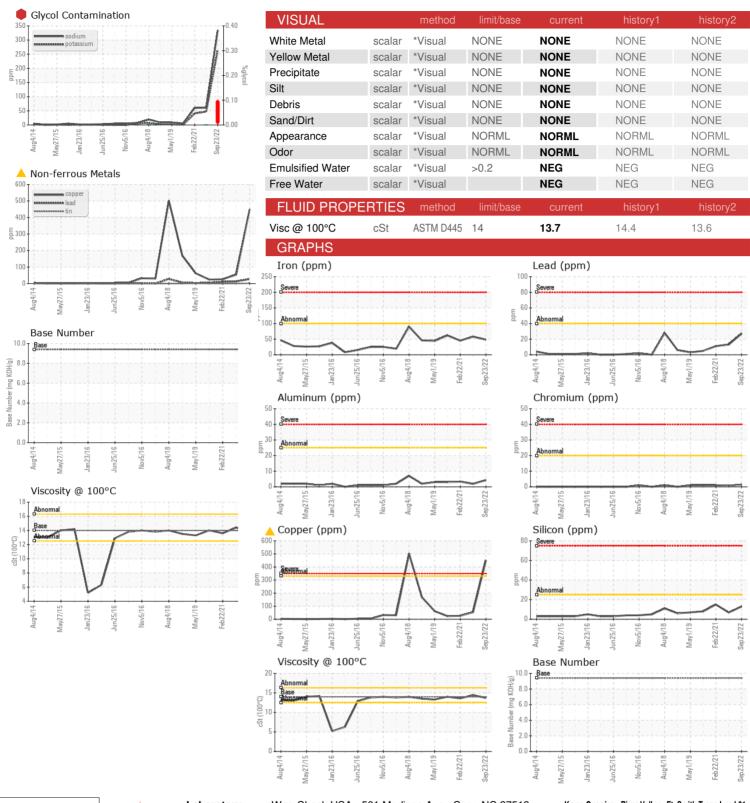
19.4

8.6

23.7



OIL ANALYSIS REPORT





Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

: 05656679 : 10156231

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Oct 2022 : PCA0062704 Diagnosed : 05 Oct 2022

Diagnostician : Don Baldridge Test Package : MOB 1 (Additional Tests: Glycol, TBN)

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)

Kemp Quarries - River Valley - Ft. Smith Trans Load 01

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Fort Smith, AR US 72916

Contact: arkomashop@kempquarries.net

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