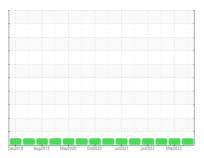


OIL ANALYSIS REPORT

KEMP QUARRIES / BCS - GRAVETTE **WL124**

Component **Diesel Engine**

DIESEL ENGINE OIL SAE 40 (--- GAL)



Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: PM-1 changed filters and fluid)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

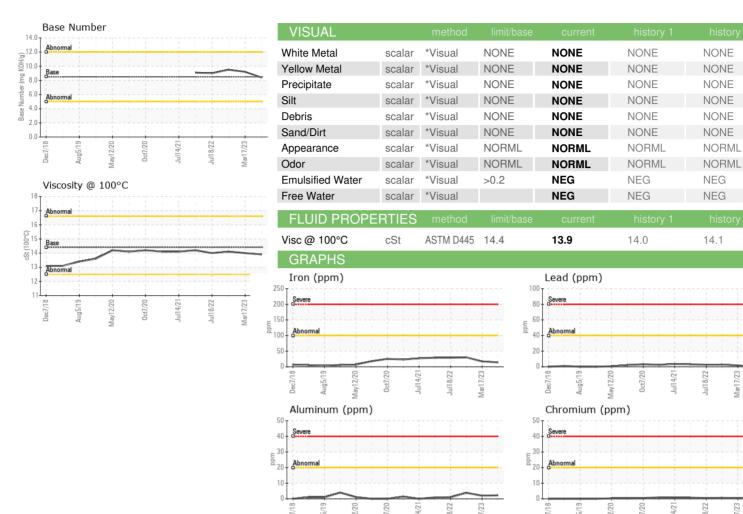
Fluid Condition

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

			ug2019 May2020 Octi		Mar2023	
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0086295	PCA0086015	PCA0070271
Sample Date		Client Info		06 Jul 2023	17 Mar 2023	18 Oct 2022
Machine Age	hrs	Client Info		36752	36319	35888
Oil Age	hrs	Client Info		36752	36319	35888
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>100	14	17	30
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	2	4
Lead	ppm	ASTM D5185m	>40	<1	2	3
Copper	ppm	ASTM D5185m	>330	8	8	5
Tin	ppm	ASTM D5185m	>15	1	1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	250	<1	2	2
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	56	60	61
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	967	989	838
Calcium	ppm	ASTM D5185m	3000	1122	1189	1124
Phosphorus	ppm	ASTM D5185m	1150	1047	1103	985
Zinc	ppm	ASTM D5185m	1350	1306	1347	1180
Sulfur	ppm	ASTM D5185m	4250	3782	3863	3484
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	9	17	3
Sodium	ppm	ASTM D5185m	>216	2	4	<1
Potassium	ppm	ASTM D5185m	>20	1	<1	2
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	0.6	0.4	1.6
Nitration	Abs/cm	*ASTM D7624	>20	6.5	6.1	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	18.4	22.0
FLUID DEGRA	OATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	13.2	15.0
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.4	9.2	9.5
. ,						



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number

Unique Number

: 05894253 : 10550063

:St (100°C)

E 200

100

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : PCA0086295 : 10 Jul 2023

Jul14/21.

Diagnosed : 12 Jul 2023 Diagnostician : Don Baldridge

Test Package : MOB 1 (Additional Tests: 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.

Copper (ppm)

Viscosity @ 100°C

Kemp Quarries - Benton County Stone - Gravette

Silicon (ppm)

Base Number

E 40

0.0

Mar17/23

Mar17/23

15100 N Hwy 59 Sulphur Springs, AR US 72768

Contact:

gravette@bentoncountystone.com

T: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: KEMSUL [WUSCAR] 05894253 (Generated: 07/12/2023 11:43:39) Rev: 1