

OIL ANALYSIS REPORT

Sample Rating Trend

SOOT

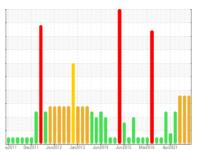




KEMP QUARRIES / PRYOR STONE **WL049**

Component **Diesel Engine**

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)





DIAGNOSIS

Recommendation

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value.

All component wear rates are normal.

Contamination

There is an abnormal amount of solids and carbon present in the oil.

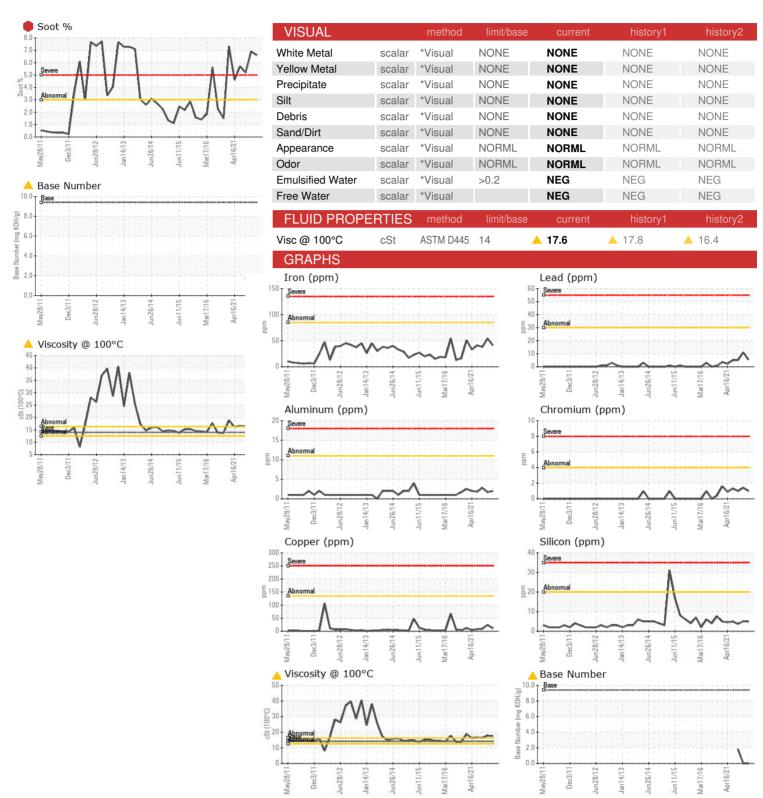
Fluid Condition

The oil viscosity is higher than normal. The BN level

UPER15W40 (-	GAL)	iy2011 Dec20	11 Jun2012 Jan2013	Jun2014 Jun2015 Mar2016	Apr2021	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0062647	PCA0062673	PCA003824
Sample Date		Client Info		24 Sep 2022	20 Jun 2022	09 Feb 2022
Machine Age	hrs	Client Info		2980	1112	690
Oil Age	hrs	Client Info		2980	263674	690
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	SEVERE	SEVERE
CONTAMINA	TION	method	limit/base	current	history1	history2
-uel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>85	41	54	38
Chromium	ppm	ASTM D5185m	>4	1	1	1
Nickel	ppm	ASTM D5185m	>4	0	1	<1
Γitanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>11	2	2	3
_ead	ppm	ASTM D5185m	>30	6	11	5
Copper	ppm	ASTM D5185m	>135	11	24	9
Γin	ppm	ASTM D5185m	>4	1	2	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	4	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	63	62	64
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	955	913	984
Calcium	ppm	ASTM D5185m		1155	1190	1128
Phosphorus	ppm	ASTM D5185m		1035	934	1063
Zinc	ppm	ASTM D5185m		1234	1200	1252
Sulfur	ppm	ASTM D5185m		3388	2858	2778
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	5	5	4
Sodium	ppm	ASTM D5185m		4	16	17
Potassium	ppm	ASTM D5185m	>20	2	2	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	6.6	6.9	5.2
Vitration	Abs/cm	*ASTM D7624	>20	13.3	17.2	11.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	33.5	35.9	30.0
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.1	22.0	17.3
Oxidation	AUS/. 1111111	ASTIVI D/414	>20	20.1	22.0	17.0



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Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: PCA0062647 : 05656681 : 10156233

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

: 03 Oct 2022 Diagnosed : 05 Oct 2022 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Kemp Quarries - Pryor Stone - Pryor

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