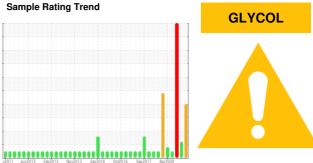


OIL ANALYSIS REPORT



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Area KEMP QUARRIES / HULBERT Machine Id WL030 Component Diesel Engine

Diesei Engine Fluid

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

0PER 15W40 (-	- GAL)	v2011 Jun20	12 Feb2013 Nov2013	Jan2016 Oct2016 Sep2017 J	Apr2020	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0109217	PCA0086818	PCA008683
Sample Date		Client Info		23 Feb 2024	13 Oct 2023	26 Jul 2023
Machine Age	hrs	Client Info		6688	6364	6169
Oil Age	hrs	Client Info		0	5058	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	ATTENTION	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>86	47	20	67
Chromium	ppm	ASTM D5185m	>3	1	0	2
Nickel	ppm	ASTM D5185m	>3	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	2	<1	2
Lead	ppm	ASTM D5185m	>16	A 32	8	4 3
Copper	ppm	ASTM D5185m	>250	A 343	120	4 78
Tin	ppm	ASTM D5185m	>2	3	<1	▲ 5
Antimony	ppm	ASTM D5185m				
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	3	<1	4
Barium	ppm	ASTM D5185m	0	0	0	0
Volybdenum	ppm	ASTM D5185m	0	153	71	139
Vanganese	ppm	ASTM D5185m		<1	0	<1
Vagnesium	ppm	ASTM D5185m	0	1101	938	935
Calcium	ppm	ASTM D5185m		1191	1016	1016
Phosphorus	ppm	ASTM D5185m		1157	979	999
Zinc	ppm	ASTM D5185m		1447	1218	1197
Sulfur	ppm	ASTM D5185m		3379	2880	2732
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	10	4	10
Sodium	ppm	ASTM D5185m		<u> </u>	124	693
Potassium	ppm	ASTM D5185m	>20	▲ 32	8	▲ 29
Glycol	%	*ASTM D2982		NEG	NEG	▲ 0.10
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.4
Nitration	Abs/cm	*ASTM D7624	>20	14.2	7.6	15.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	18.5	21.6
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	14.9	19.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	10.9	7.2	10.5
	ing NOTi/g	A01101 D2030	5.4	10.9	1.2	10.5

DIAGNOSIS

Recommendation

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

🔺 Wear

Bearing and/or bushing wear is indicated. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core).

Contamination

Sodium and/or potassium levels are high.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil.



OIL ANALYSIS REPORT

scalar

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cSt

1/10/1m

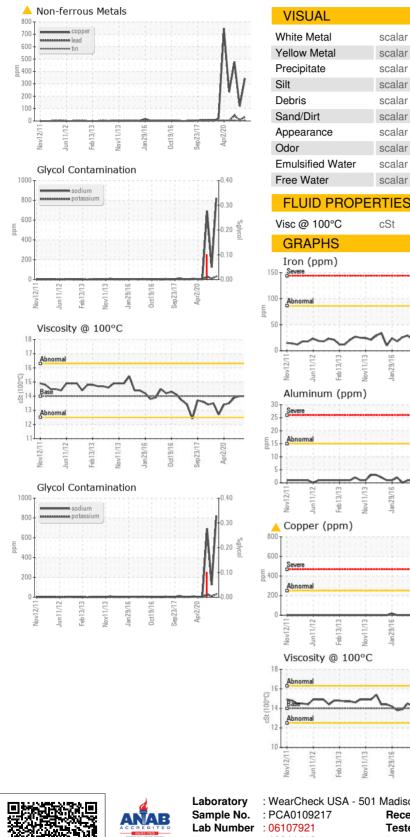
eb13/1

Feb 13/1

Feb 13/1 I/11/1

Feb 13/13 Jov11/13 19Cur

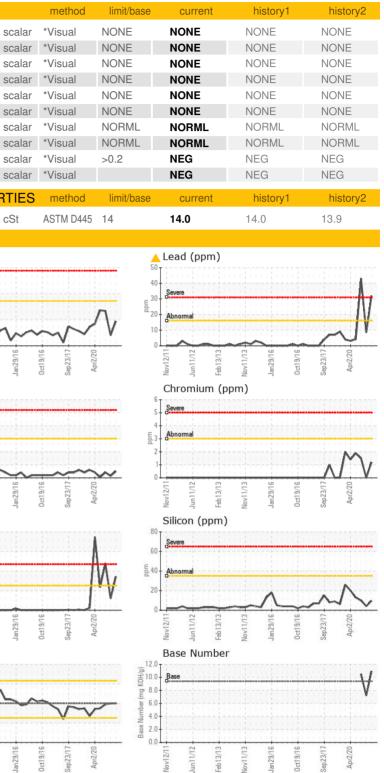
1/6Cue



: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Kemp Quarries - Kemp Stone - Hulbert : PCA0109217 Received :04 Mar 2024 Tested :06 Mar 2024 : 06 Mar 2024 - Jonathan Hester Unique Number : 10911418 Diagnosed Test Package : MOB 1 (Additional Tests: Glycol, TBN) Certificate L2367 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)

en23/1

Sen23/1





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