

OIL ANALYSIS REPORT

KEMP QUARRIES / HULBERT **OHT049**

Component **Diesel Engine**

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

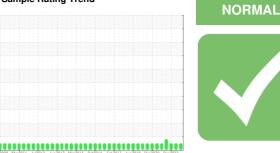
All component wear rates are normal.

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.



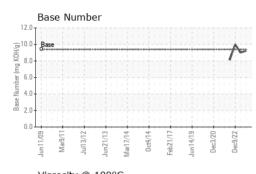


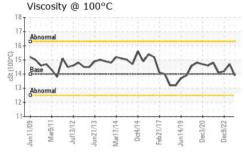
Sample Rating Trend

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0109165	PCA0086130	PCA0061812
Sample Date		Client Info		27 Jan 2024	23 Sep 2023	09 Dec 2022
Machine Age	hrs	Client Info		9318	8820	7760
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
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
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	41	48	34
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	0
Lead	ppm	ASTM D5185m	>40	1	4	<1
Copper	ppm	ASTM D5185m	>330	6	9	8
Tin	ppm	ASTM D5185m	>15	0	2	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	<1	2
Barium	ppm	ASTM D5185m	0	6	0	0
Molybdenum	ppm	ASTM D5185m	0	61	67	64
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	0	886	979	1024
Calcium	ppm	ASTM D5185m		987	1088	1150
Phosphorus	ppm	ASTM D5185m		985	1031	1039
Zinc	ppm	ASTM D5185m		1162	1247	1352
Sulfur	ppm	ASTM D5185m		2908	3046	3615
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4	4
Sodium	ppm	ASTM D5185m		6	14	4
Potassium	ppm	ASTM D5185m	>20	2	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.3	1.9	1.4
Nitration	Abs/cm	*ASTM D7624	>20	9.8	9.5	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	21.8	22.8
FLUID DEGRAD		method	limit/base	current	history1	history2
1 LOID DEGNINE		mounou		oanon		,
Oxidation	Abs/.1mm	*ASTM D7414		17.0	16.7	18.6
			>25		, in the second s	



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Certificate L2367

Laboratory

Sample No.