

OIL ANALYSIS REPORT

Area KEMP QUARRIES / MUSKOGEE SAND Machine Id GEN023 Component

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. 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 INFORM	/ IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0087096	PCA0087180	PCA0070535
Sample Date		Client Info		01 Aug 2023	22 Feb 2023	15 Dec 2022
Machine Age	hrs	Client Info		11375	11065	11000
Oil Age	hrs	Client Info		375	65	885
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	SEVERE	SEVERE
CONTAMINATI		method	limit/base	current	history1	history2
Glycol		WC Method	IIIII/Dasc	NEG	NEG	NEG
•				-		
WEAR METALS	5	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	28	17	18
Chromium	ppm	ASTM D5185m	>20	4	<1	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	<1	2
Lead	ppm	ASTM D5185m	>40	7	2	3
Copper	ppm	ASTM D5185m	>330	11	5	6
Tin	ppm	ASTM D5185m	>15	5	2	4
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	2	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	0	71	46	54
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	0	1119	750	830
Calcium	ppm	ASTM D5185m	-	1271	932	922
Phosphorus	ppm	ASTM D5185m		1075	735	826
Zinc	ppm	ASTM D5185m		1409	987	1092
Sulfur	ppm	ASTM D5185m		3087	2500	2916
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		5	7	5
Sodium	ppm	ASTM D5185m	20	2	1	2
Potassium	ppm	ASTM D5185m	>20	<u>د</u> <1	1	0
Fuel	%	ASTM D310311		0.5	23.8	18.1
	/0					
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624		7.6	6.3	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	16.5	17.3
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	12.4	14.0
Base Number (BN)	mg KOH/g	ASTM D2896		9.4	8.1	8.3
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Porter, OK

US 74454

Contact:

T:

F:

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

Dec15/22 -

Dec15/22

Dec15/22

Dec15/22

Aug1/23

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