

OIL ANALYSIS REPORT

KEMP QUARRIES / RIVER VALLEY MATERIALS - FT. SMITH TRANS LOAD 01 **WL096**

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.

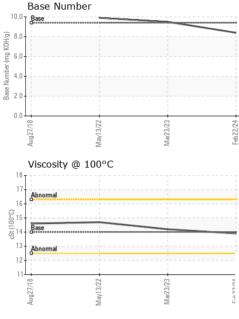
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L)		AugŽ01	8 May2022	Mar2023 Fe	52024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0084218	PCA0070413	PCA0062685
Sample Date		Client Info		22 Feb 2024	23 Mar 2023	13 May 2022
Machine Age	hrs	Client Info		3351	3133	2877
Oil Age	hrs	Client Info		3133	3133	1782
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	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 METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	15	18	20
Chromium	ppm	ASTM D5185m		2	3	3
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>25	3	5	5
_ead	ppm	ASTM D5185m	>40	<1	<1	1
Copper	ppm	ASTM D5185m		2	3	3
Fin	ppm	ASTM D5185m	>15	- <1	<1	<1
/anadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	3	6
Barium	ppm	ASTM D5185m	0	0	2	0
Volybdenum	ppm	ASTM D5185m	0	67	60	61
Vanganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	1123	929	1055
Calcium	ppm	ASTM D5185m		1139	1067	1162
Phosphorus	ppm	ASTM D5185m		1181	1034	1080
Zinc	ppm	ASTM D5185m		1527	1216	1323
Sulfur	ppm	ASTM D5185m		3686	3138	2929
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	9	7
Sodium	ppm	ASTM D5185m		<1	1	<1
	ppm	ASTM D5185m	>20	<1	2	3
Potassium					history1	history?
Potassium INFRA-RED		method	limit/base	current	TIIStOLAT	history2
INFRA-RED	%	method *ASTM D7844	limit/base	0.1	0.1	0.2
INFRA-RED Soot %	% Abs/cm		>3			
INFRA-RED Soot % Nitration		*ASTM D7844	>3	0.1	0.1	0.2
INFRA-RED Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>3 >20	0.1 5.2	0.1 5.6	0.2 7.4
Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>3 >20 >30	0.1 5.2 17.1	0.1 5.6 17.5	0.2 7.4 19.2

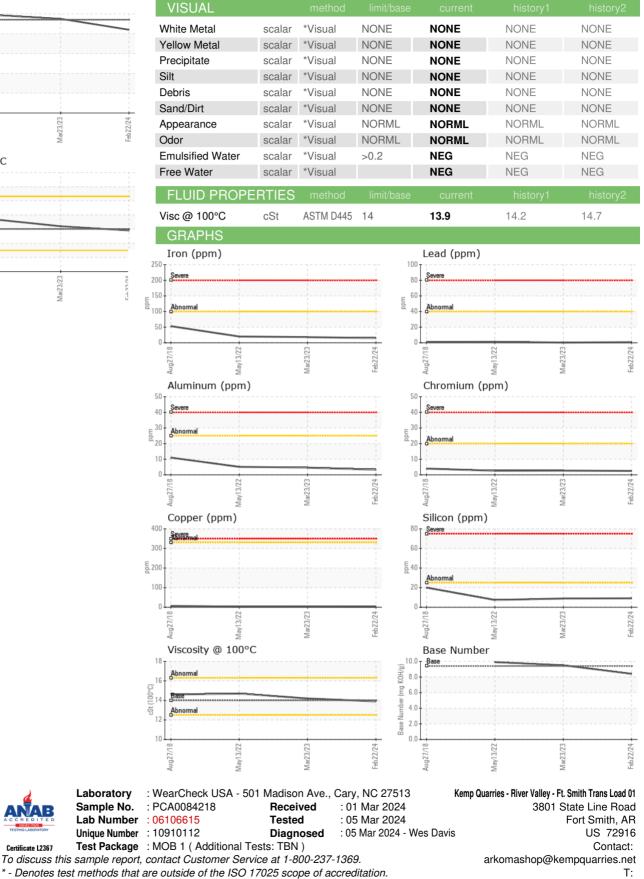
Sample Rating Trend

NORMAL



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

Certificate L2367

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