

OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



Area KEMP QUARRIES / RIVER VALLEY ARKOMA Machine Id WL062 Component

Front Differential

MOBIL MOBILTRANS HD 50 (--- GAL)

HD 50 (GAL)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0084425	PCA0084024	PCA0084237
Sample Date		Client Info		22 Feb 2024	23 Oct 2023	04 Aug 2023
Machine Age	hrs	Client Info		26382	25859	25405
Oil Age	hrs	Client Info		24267	24267	1500
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ATTENTION	ATTENTION	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	152	112	83
Chromium	ppm	ASTM D5185m	>3	3	2	2
Nickel	ppm	ASTM D5185m	>3	<1	1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	2	1	2
Lead	ppm	ASTM D5185m	>13	13	11	11
Copper	ppm	ASTM D5185m	>103	89	85	91
Tin	ppm	ASTM D5185m	>5	5	4	5
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m		9	9	7
Calcium	ppm	ASTM D5185m		<u> </u>	74	87
Phosphorus	ppm	ASTM D5185m		9 380	381	387
Zinc	ppm	ASTM D5185m		456	463	444
Sulfur	ppm	ASTM D5185m		1126	979	1640
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>100	9	6	5
Sodium	ppm	ASTM D5185m		1	<1	<1
Potassium	ppm	ASTM D5185m	>20	0	1	0
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

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Wear

All component wear rates are normal.

Contamination

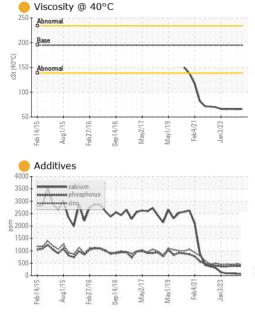
There is no indication of any contamination in the oil.

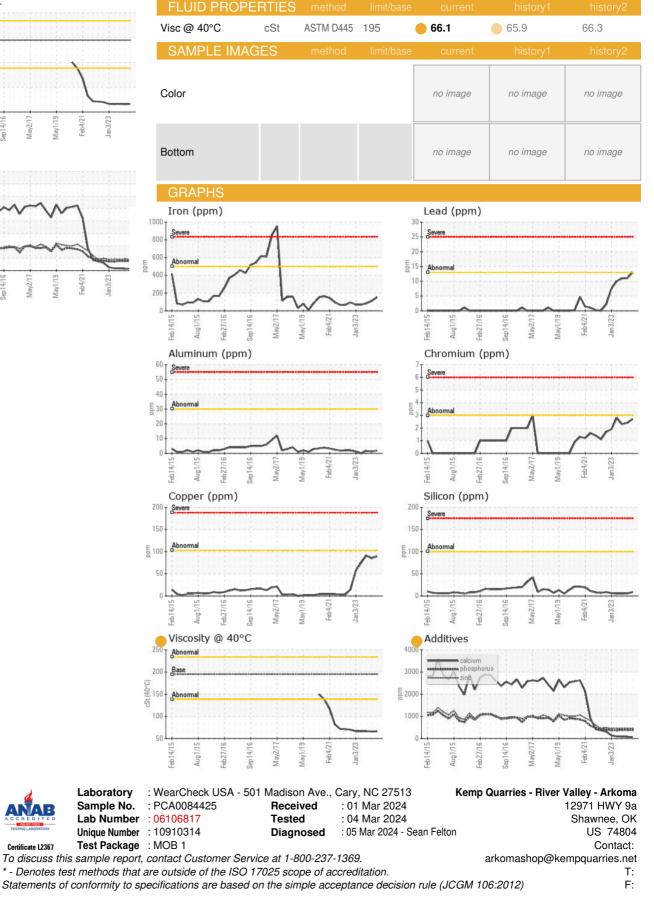
Fluid Condition

The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.



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Certificate L2367