

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

## KEMP QUARRIES / RIVER VALLEY BACKBONE

## OHT087 Component

**Diesel Engine** 

## MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		PCA0034493	PCA0069905	PCA0084885
	Sample Date		Client Info		23 May 2024	28 Dec 2023	13 Oct 2023
	Machine Age	hrs	Client Info		34560	33775	33094
	Oil Age	hrs	Client Info		785	325	300
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	22	34	31
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>4	0	<1	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>20	1	2	<1
	Lead	ppm	ASTM D5185m	>40	2	2	4
	Copper	ppm	ASTM D5185m	>330	6	37	161
	Tin	ppm	ASTM D5185m	>15	<1	1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	3	4	3
	Potassium	ppm	ASTM D5185m	>20	<1	1	3
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.7	0.7	0.8
	Nitration	Abs/cm	*ASTM D7624	>20	8.2	8.6	8.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	21.6	21.2
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	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	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	0	3
	Boron	ppm	ASTM D5185m	0	0	1	<1
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	8	0
	Molybdenum	ppm	ASTM D5185m		67	76	64
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	0	1156	1209	1028
	Calcium	ppm	ASTM D5185m		1360	1346	1099
	Phosphorus	ppm	ASTM D5185m		1251	1172	1053
	Zinc	ppm	ASTM D5185m		1539	1526	1321
	Sulfur	ppm	ASTM D5185m		4189	3677	2854
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	17.6	17.2
	Base Number (BN)				9.0	8.6	8.1
		99		-			

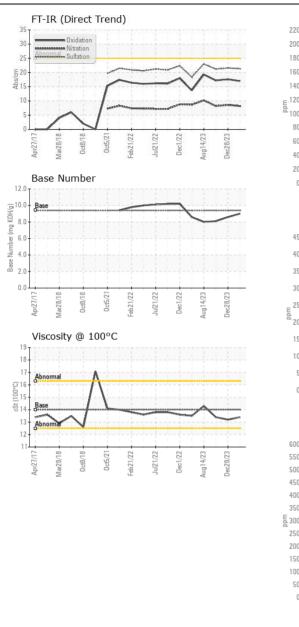
Visc @ 100°C cSt

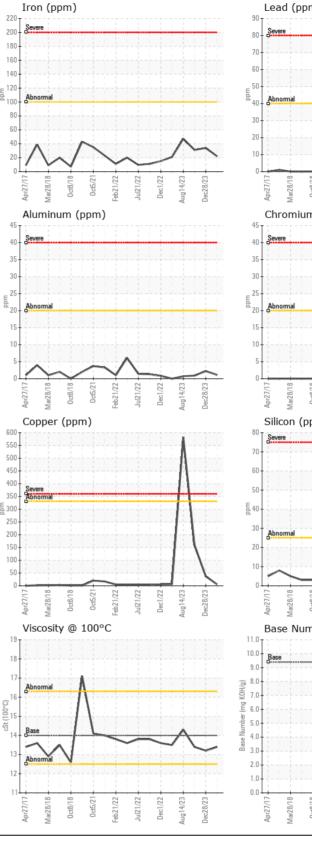
ASTM D445 14

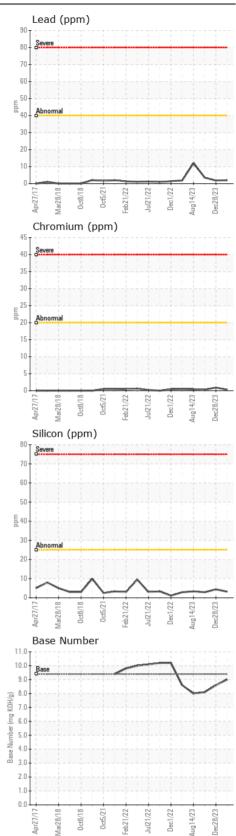
13.4

13.2

13.4









Received

: 28 May 2024

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Laboratory

Sample No.

: PCA0034493

Т:

F:

5600 S Hwy 253

Kemp Quarries - River Valley - Backbone