WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

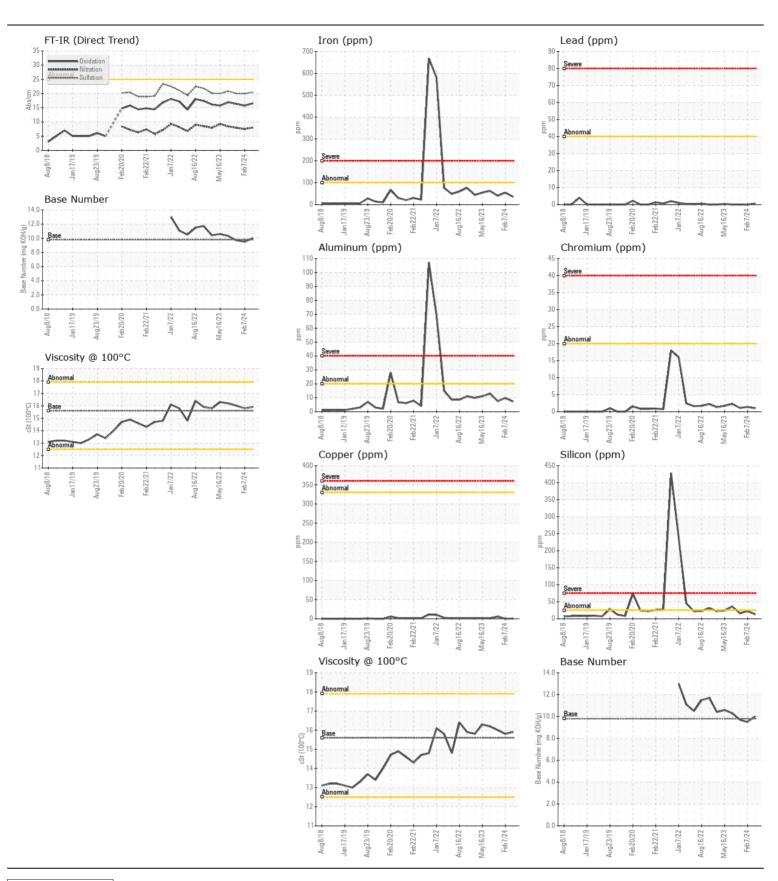
Area

## KEMP QUARRIES / KEMP STONE - FAIRLAND [70036]

**WL119** 

Component Diesel Engine

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. ( Customer Sample Comment: PM-3 changed filters and fluid )	Sample Number		Client Info		PCA0109095	PCA0086494	PCA0084808
	Sample Date	lawa	Client Info		22 May 2024	07 Feb 2024	12 Oct 2023
	Machine Age	hrs	Client Info		6970	6817	6656
	Oil Age	hrs	Client Info		6970	6817	6656 0
	Filter Age	hrs	Client Info		0 Changed	0 Changed	
	Oil Changed Filter Changed		Client Info		Changed	Ŭ	Changed
	Sample Status		Client inio		Changed NORMAL	Changed NORMAL	Changed NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	36	54	40
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		0	<1	<1
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m		7	10	8
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		<1	<1	6
	Tin	ppm	ASTM D5185m	>15	0	<1	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	13	22	16
	Potassium	ppm	ASTM D5185m	>20	<1	1	4
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	0.5	0.3	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	8.0	7.5	7.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	19.9	20.0
	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		2	2	4
	Boron	ppm	ASTM D5185m		0	4	2
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	0	0
	Molybdenum	ppm	ASTM D5185m		76	71	72
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		1336	1155	1164
	Calcium	ppm	ASTM D5185m		1557	1289	1316
	Phosphorus	ppm	ASTM D5185m		1258	1175	1124
	Zinc	ppm	ASTM D5185m		1650	1427	1405
	Sulfur	ppm	ASTM D5185m		4209	3298	3093
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	15.7	16.3
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	10.0	9.5	9.7
	Visc @ 100°C	cSt	ASTM D445	15.6	15.9	15.8	16.0







Report Id: KEMFAI [WUSCAR] 06193220 (Generated: 05/30/2024 20:49:31) Rev: 1

Laboratory Sample No.

: PCA0109095 Lab Number : 06193220 Unique Number : 11049972

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

: 28 May 2024 Diagnosed

: 30 May 2024 : 30 May 2024 - Sean Felton

Kemp Quarries - Kemp Stone - Fairland 18350 S 590 Rd Fairland, OK

US 74343 Contact:

Test Package : MOB 1 ( Additional Tests: TBN ) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

fairland@kempstone.com

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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