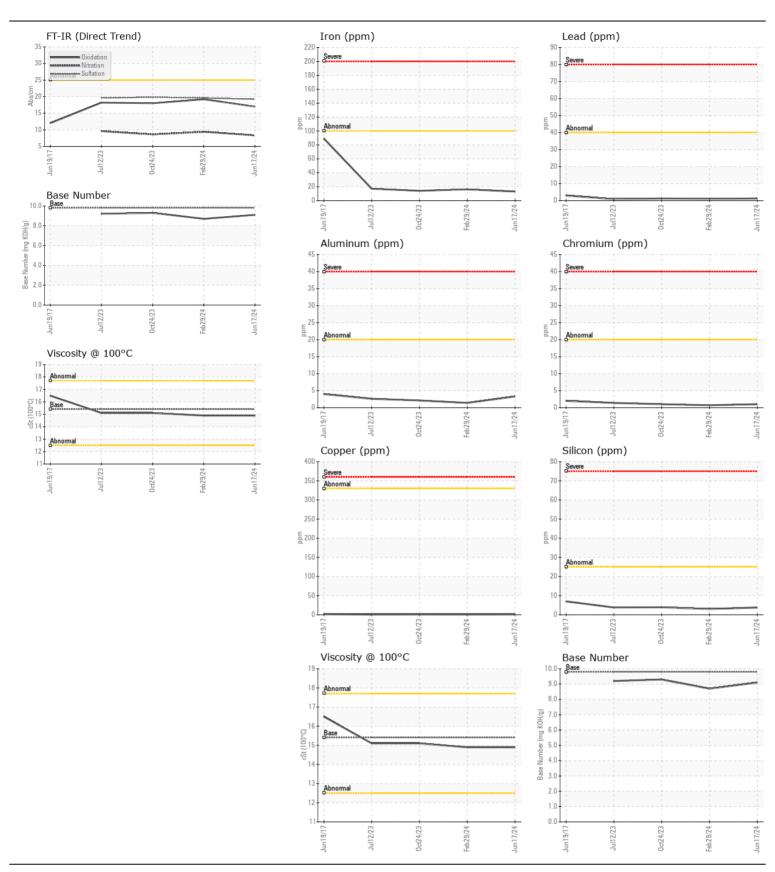
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

[71304] Machine Id 5312

5312 Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. (Customer Sample Comment: Changed fluid and filters)	Sample Number		Client Info		PCA0126255	PCA0086543	PCA008705
	Sample Date		Client Info		17 Jun 2024	29 Feb 2024	24 Oct 202
	Machine Age	hrs	Client Info		20532	20223	19852
	Oil Age	hrs	Client Info		20532	20223	322
	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
VEAR	Iron	ppm	ASTM D5185m	>100	13	16	14
WEAR	Chromium	ppm	ASTM D5185m		1	<1	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	<1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m		3	1	2
	Lead	ppm	ASTM D5185m		1	1	1
	Copper	ppm	ASTM D5185m		1	<1	1
	Tin	ppm	ASTM D5185m		<1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ASTM D5185m	. 25	4	3	4
CONTAMINATION	Potassium	ppm	ASTM D5185m		2	0	<1
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	<i>></i> 0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~3	0.1	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	8.3	9.4	8.6
	Sulfation	Abs/.1mm	*ASTM D7415		19.2	19.6	19.8
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
LUD CONDITION							
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0	<1	2	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		2	2	2
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m		67	59	62
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		965	979	965
	Calcium Phosphorus	ppm	ASTM D5185m		1127	1140	1034
		ppm	ASTM D5185m ASTM D5185m		997	989	1065
	Zinc Sulfur	ppm	ASTM D5185m		1264	1234 3298	1265 2957
	Oxidation	ppm Abs/.1mm	*ASTM D5185m		2730 17.0	19.2	18.0
	Base Number (BN)				9.1	8.7	9.3
	Dase Mullipel (DIV)	my NOTI/9	MO 1 IVI D2030	0.0	9.1	0.7	0.0







Laboratory Sample No.

Lab Number : 06225778 Unique Number : 11109271

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0126255 Received : 02 Jul 2024 **Tested** : 03 Jul 2024

Diagnosed : 03 Jul 2024 - Don Baldridge Test Package : MOB 1 (Additional Tests: TBN)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)

Kemp Quarries - Muskogee Sand

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