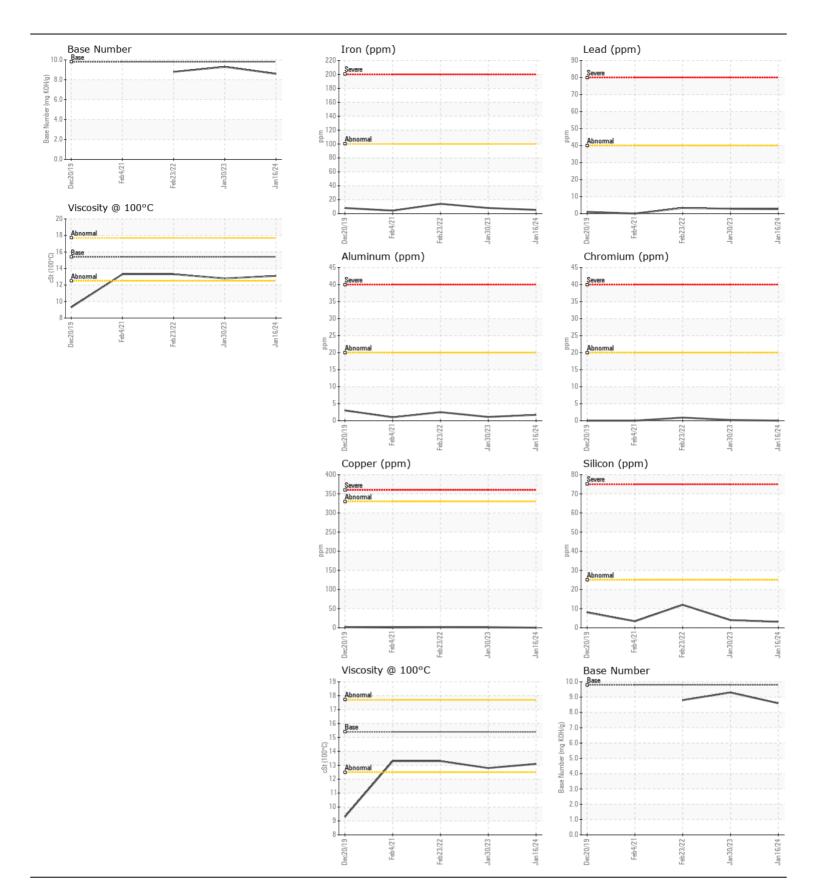
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

KEMP QUARRIES / PRYOR STONE [67852] Machine Id 3263

Component
Diesel Engine

)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. (Customer Sample	Sample Number		Client Info		PCA0084409	PCA0070475	PCA0037839
Comment: PM performed. Engine oil sample taken. Engine oil, and all filters changed.)	Sample Date		Client Info		16 Jan 2024	30 Jan 2023	23 Feb 2022
	Machine Age	hrs	Client Info		13648	13302	12984
	Oil Age	hrs	Client Info		346	318	309
	Filter Age	hrs	Client Info		346	318	309
	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	5	8	14
	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	<1	0	1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	<1	<1	<1
	Aluminum	ppm	ASTM D5185m	>20	2	1	2
	Lead	ppm	ASTM D5185m	>40	3	3	3
	Copper	ppm	ASTM D5185m	>330	<1	1	2
	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	12
	Potassium	ppm	ASTM D5185m	>20	<1	0	2
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	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	7.7	8.4	7.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	21.6	17.8
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	3	2
	Boron	ppm	ASTM D5185m	0	2	3	4
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	0
	Molybdenum	ppm	ASTM D5185m		59	59	60
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	937	900	998
	Calcium	ppm	ASTM D5185m	1070	1015	1040	1143
	Phosphorus	ppm	ASTM D5185m	1150	1063	974	1107
	Zinc	ppm	ASTM D5185m	1270	1277	1175	1237
	Sulfur	ppm	ASTM D5185m	2060	3233	3560	2870
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	16.7	14.8
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	9.3	8.8
	Visc @ 100°C	cSt	ASTM D445	4 = 4	13.1	12.8	13.3







Laboratory Sample No. Unique Number : 10875534

Lab Number : 06088089

: PCA0084409

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Feb 2024 Tested : 14 Feb 2024

Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

: 15 Feb 2024 - Don Baldridge

Kemp Quarries - Pryor Stone - Pryor 1050 E 520 Rd Pryor, OK US 74361 Contact:

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

pryor@pryorstone.com T:

* - 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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