

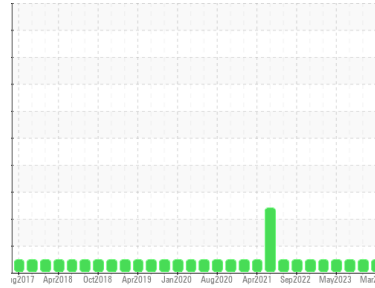
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
KEMP QUARRIES / PRYOR STONE [69066]
 Machine Id
WL116
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)



DIAGNOSIS

Recommendation
 Resample at the next service interval to monitor. (Customer Sample Comment: Pm3 performed. All oil samples taken. Engine oil, and all filters changed.)

Wear
 All component wear rates are normal.

Contamination
 There is no indication of any contamination in the oil.

Fluid Condition
 The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PCA0086596	PCA0084408	PCA0084248
Sample Date	Client Info			05 Mar 2024	21 Dec 2023	12 Aug 2023
Machine Age	hrs Client Info			6476	6032	6032
Oil Age	hrs Client Info			160	139	196
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<1.0	<1.0	<1.0
Water	WC Method	>0.2		NEG	NEG	NEG
Glycol	WC Method			NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>100		28	15	29
Chromium	ppm ASTM D5185m	>20		1	<1	<1
Nickel	ppm ASTM D5185m	>4		<1	0	0
Titanium	ppm ASTM D5185m			<1	0	<1
Silver	ppm ASTM D5185m	>3		<1	0	0
Aluminum	ppm ASTM D5185m	>20		8	5	10
Lead	ppm ASTM D5185m	>40		1	0	0
Copper	ppm ASTM D5185m	>330		2	<1	3
Tin	ppm ASTM D5185m	>15		1	<1	<1
Vanadium	ppm ASTM D5185m			<1	0	0
Cadmium	ppm ASTM D5185m			<1	0	0

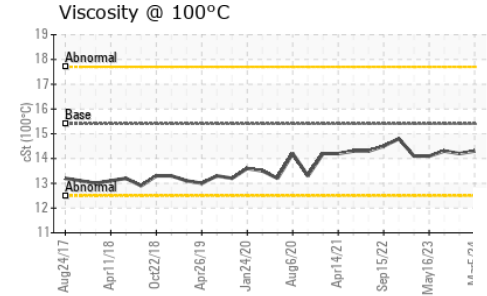
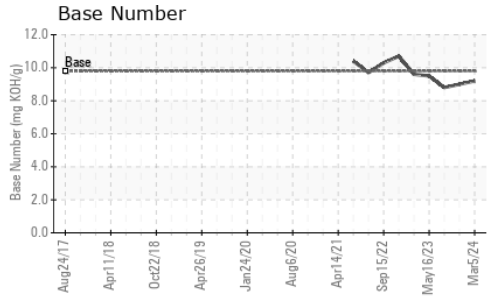
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	0		3	3	3
Barium	ppm ASTM D5185m	0		1	0	0
Molybdenum	ppm ASTM D5185m	60		65	62	63
Manganese	ppm ASTM D5185m	0		1	0	<1
Magnesium	ppm ASTM D5185m	1010		971	1069	1074
Calcium	ppm ASTM D5185m	1070		1154	1200	1246
Phosphorus	ppm ASTM D5185m	1150		985	1106	1132
Zinc	ppm ASTM D5185m	1270		1224	1345	1404
Sulfur	ppm ASTM D5185m	2060		3032	3360	4084

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25		19	11	20
Sodium	ppm ASTM D5185m			2	2	24
Potassium	ppm ASTM D5185m	>20		3	0	2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3		0.2	0.2	0.2
Nitration	Abs/cm *ASTM D7624	>20		6.0	5.5	5.7
Sulfation	Abs/.1mm *ASTM D7415	>30		18.1	18.1	17.6

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25		14.5	13.9	13.7
Base Number (BN)	mg KOH/g ASTM D2896	9.8		9.2	9.0	8.8

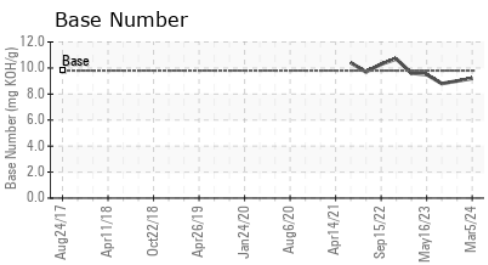
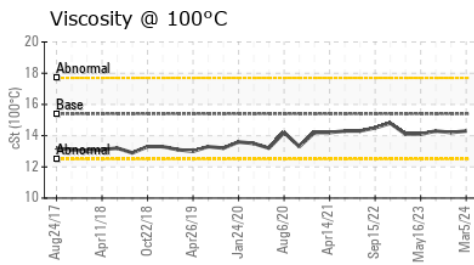
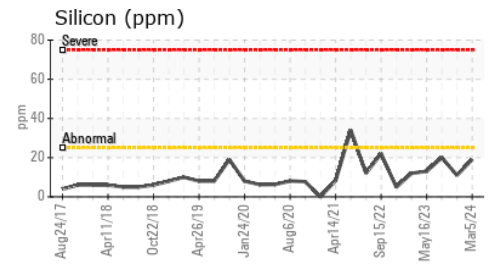
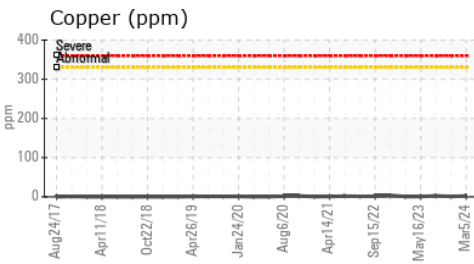
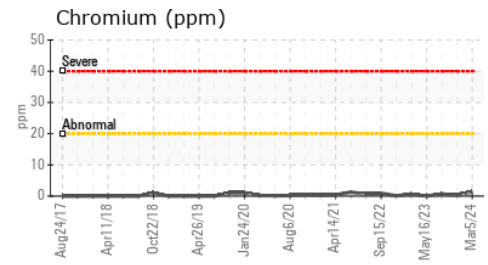
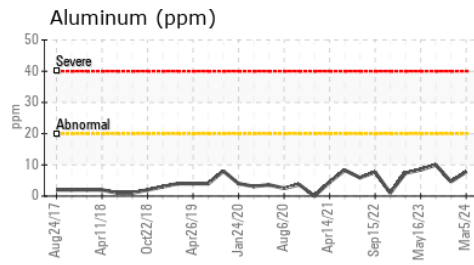
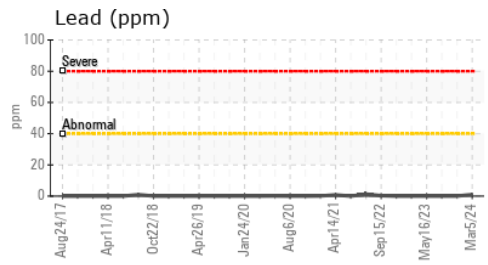
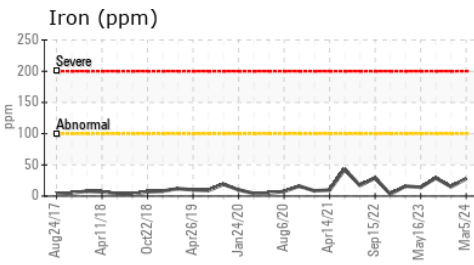
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.2	14.3

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0086596
Lab Number : **06127469**
Unique Number : 10941620
Test Package : MOB 1 (Additional Tests: TBN)

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

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)

Contact: pryor@pryorstone.com

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F: