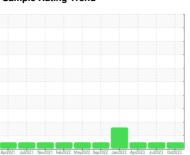


OIL ANALYSIS REPORT

Sample Rating Trend







KEMP QUARRIES / PRYOR STONE [66477] **WL139**

Component **Rear Right Final Drive**

PETRO CANADA PRODU

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Pm1 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

Fluid Condition

The condition of the oil is acceptable for the time in service.

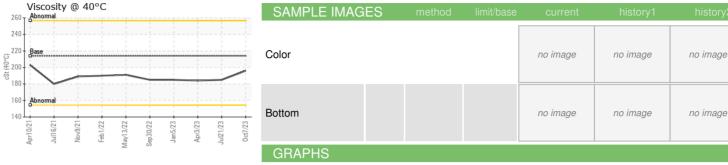
Sample Date Machine Age hrs Oil Age hrs Oil Changed Sample Status WEAR METALS Iron ppm Chromium ppm Nickel ppm Titanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm Cadmium ppm Barium ppm Molybdenum ppm Manganese ppm Magnesium ppm Calcium ppm Calcium ppm Containium ppm Calcium ppm Chosphorus ppm Silicon ppm Sodium ppm Contaminant	method Client Info Client Info Client Info Client Info Client Info Client Info ASTM D5185m	limit/base	Current PCA0084299 07 Oct 2023 34794 486 Oil Added	history1 PCA0084204 21 Jul 2023 34308 2154	history2 PCA0083909 03 Apr 2023
Sample Date Machine Age hrs Oil Age hrs Oil Age hrs Oil Changed Sample Status WEAR METALS Iron ppm Chromium ppm Nickel ppm Titanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm Cadmium ppm Barium ppm Molybdenum ppm Manganese ppm Manganese ppm Calcium ppm Phosphorus ppm Silicon ppm Sodium ppm CONTAMINANTS Silicon ppm Sodium ppm VISUAL White Metal scalar Yellow Metal scalar Precipitate scalar Silit scalar Debris scalar	Client Info Client Info Client Info Client Info method		07 Oct 2023 34794 486	21 Jul 2023 34308	03 Apr 2023
Machine Age hrs Oil Age hrs Oil Changed Sample Status WEAR METALS Iron ppm Chromium ppm Chromium ppm Chromium ppm Silver ppm Aluminum ppm Lead ppm Cadmium ppm Cadmium ppm Wanadium ppm Cadmium ppm Cadmium ppm Calcium ppm Manganese ppm Manganese ppm Calcium ppm Calcium ppm Calcium ppm Calcium ppm Calcium ppm Chosphorus ppm Calcium ppm Chosphorus ppm Calcium ppm Chosphorus ppm Contaminants	Client Info Client Info Client Info method ASTM D5185m		34794 486	34308	
Dil Age hrs Dil Changed Gample Status WEAR METALS ron ppm Chromium ppm Nickel ppm Titanium ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm Cadmium ppm Darium ppm Cadmium ppm Cadmium ppm Calcium ppm Manganese ppm Manganese ppm Calcium	Client Info Client Info method ASTM D5185m		486		00=45
Dil Changed Sample Status WEAR METALS ron ppm Chromium ppm Nickel ppm Titanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Cadmium ppm Cadmium ppm Cadmium ppm Calcium ppm Manganese ppm Manganese ppm Calcium p	Client Info method ASTM D5185m			2154	33745
Sample Status WEAR METALS ron ppm Chromium ppm Nickel ppm Titanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm Cadmium ppm Dadmium ppm Dadmium ppm ADDITIVES Boron ppm Barium ppm Manganese ppm Manganese ppm Calcium ppm Chosphorus ppm Calcium ppm Chosphorus ppm Contaminum ppm Chosphorus ppm Chotal ppm Chosphorus ppm Chopphorus ppm Chosphorus ppm Chosphorus ppm Chosphorus ppm Chosphor	method ASTM D5185m		Oil Added		1691
WEAR METALS ron ppm Chromium ppm Chromium ppm Clickel ppm Citanium ppm Calcium ppm Cadmium ppm Cadmium ppm Cadmium ppm Cadmium ppm Cadmium ppm Cadmium ppm Calcium ppm Manganese ppm Calcium ppm Chosphorus ppm Chospho	ASTM D5185m			Changed	Oil Added
ron ppm Chromium ppm Nickel ppm Fitanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Fin ppm Vanadium ppm Cadmium ppm Cadmium ppm Cadmium ppm Calcium ppm Manganese ppm Magnesium ppm Calcium ppm Calcium ppm Chosphorus ppm Chosph	ASTM D5185m		NORMAL	NORMAL	NORMAL
Chromium ppm Nickel ppm Fitanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Fin ppm Vanadium ppm Cadmium ppm ADDITIVES Boron ppm Barium ppm Manganese ppm Magnesium ppm Calcium ppm Calcium ppm Chosphorus ppm Chosphorus ppm Contaminum ppm Chosphorus ppm Chos		limit/base	current	history1	history2
Nickel ppm Fitanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Fin ppm Vanadium ppm Cadmium ppm Cadmium ppm ADDITIVES Boron ppm Barium ppm Molybdenum ppm Manganese ppm Magnesium ppm Calcium ppm Chosphorus ppm Contaminum ppm Co	AOTAL DEVAS	>800	2	7	7
Fitanium ppm Gilver ppm Aluminum ppm Lead ppm Copper ppm Fin ppm Vanadium ppm Cadmium ppm Cadmium ppm ADDITIVES Boron ppm Barium ppm Manganese ppm Magnesium ppm Calcium ppm C	ASTM D5185m	>10	0	0	<1
Silver ppm Aluminum ppm Lead ppm Copper ppm Fin ppm Vanadium ppm Cadmium ppm Cadmium ppm Barium ppm Manganese ppm Magnesium ppm Calcium ppm Contaminants Co	ASTM D5185m	>5	0	0	<1
Aluminum ppm Lead ppm Copper ppm Fin ppm Vanadium ppm Cadmium ppm Cadmium ppm Cadmium ppm Cadmium ppm Malparatium ppm Manganese ppm Magnesium ppm Calcium ppm Calc	ASTM D5185m	>15	0	0	0
Lead ppm Copper ppm Tin ppm Vanadium ppm Cadmium ppm ADDITIVES Boron ppm Barium ppm Molybdenum ppm Manganese ppm Magnesium ppm Calcium ppm Chosphorus ppm Chosphorus ppm Contaminant ppm Conta	ASTM D5185m	>2	0	0	0
Copper ppm Copper ppm Copper ppm Canadium ppm Cadmium ppm Cadmium ppm ADDITIVES Coron ppm Carium ppm Molybdenum ppm Manganese ppm Magnesium ppm Calcium ppm Chosphorus ppm Contaminants	ASTM D5185m	>75	1	3	1
Copper ppm Fin ppm Vanadium ppm Cadmium ppm Cadmium ppm ADDITIVES Boron ppm Barium ppm Molybdenum ppm Manganese ppm Magnesium ppm Calcium ppm Phosphorus ppm Contaminant ppm C	ASTM D5185m	>10	<1	0	0
Fin ppm Vanadium ppm Cadmium ppm Cadmium ppm ADDITIVES Boron ppm Barium ppm Molybdenum ppm Manganese ppm Magnesium ppm Calcium ppm Phosphorus ppm Contaminants Silicon ppm Sodium ppm Potassium ppm VISUAL White Metal scalar Yellow Metal scalar Precipitate scalar Silt scalar Debris scalar	ASTM D5185m	>75	<1	4	2
Vanadium ppm Cadmium ppm ADDITIVES Boron ppm Barium ppm Molybdenum ppm Manganese ppm Magnesium ppm Calcium ppm Phosphorus ppm Zinc ppm Sulfur ppm CONTAMINANTS Silicon ppm Potassium ppm VISUAL White Metal scalar Yellow Metal scalar Yellow Metal scalar Silt scalar Debris scalar	ASTM D5185m	>8	<1	0	0
Cadmium ppm ADDITIVES Boron ppm Barium ppm Molybdenum ppm Manganese ppm Magnesium ppm Calcium ppm Phosphorus ppm Sulfur ppm CONTAMINANTS Silicon ppm Sodium ppm Potassium ppm VISUAL White Metal scalar Yellow Metal scalar Precipitate scalar Silt scalar	ASTM D5185m		0	0	0
Boron ppm Barium ppm Molybdenum ppm Manganese ppm Magnesium ppm Calcium ppm Phosphorus ppm Zinc ppm Sulfur ppm CONTAMINANTS Silicon ppm Potassium ppm Potassium ppm Precipitate scalar Silt scalar Debris scalar	ASTM D5185m		0	0	0
Barium ppm Molybdenum ppm Manganese ppm Magnesium ppm Dalcium ppm Phosphorus ppm Sulfur ppm CONTAMINANTS Silicon ppm Sodium ppm Potassium ppm VISUAL White Metal scalar Yellow Metal scalar Precipitate scalar Silt scalar Debris scalar	method	limit/base	current	history1	history2
Molybdenum ppm Manganese ppm Magnesium ppm Calcium ppm Phosphorus ppm Zinc ppm Sulfur ppm CONTAMINANTS Silicon ppm Potassium ppm VISUAL White Metal scalar Cellow Metal scalar Cellow Metal scalar Silt scalar Debris scalar	ASTM D5185m	2	0	0	<1
Manganese ppm Magnesium ppm Calcium ppm Phosphorus ppm Zinc ppm Gulfur ppm CONTAMINANTS Silicon ppm Sodium ppm Potassium ppm VISUAL White Metal scalar Yellow Metal scalar Yellow Metal scalar Silt scalar Debris scalar	ASTM D5185m	0	0	0	0
Magnesium ppm Calcium ppm Phosphorus ppm Zinc ppm Sulfur ppm CONTAMINANTS Silicon ppm Sodium ppm Potassium ppm VISUAL White Metal scalar Yellow Metal scalar Precipitate scalar Silt scalar Debris scalar	ASTM D5185m	0	<1	0	1
Magnesium ppm Calcium ppm Phosphorus ppm Zinc ppm Sulfur ppm CONTAMINANTS Silicon ppm Sodium ppm Potassium ppm VISUAL White Metal scalar Yellow Metal scalar Precipitate scalar Silt scalar Debris scalar	ASTM D5185m	0	0	<1	<1
Phosphorus ppm Zinc ppm Sulfur ppm CONTAMINANTS Silicon ppm Sodium ppm Potassium ppm VISUAL White Metal scalar Yellow Metal scalar Precipitate scalar Silt scalar Debris scalar	ASTM D5185m	9	<1	14	16
Zinc ppm Sulfur ppm CONTAMINANTS Silicon ppm Sodium ppm Potassium ppm VISUAL White Metal scalar Yellow Metal scalar Precipitate scalar Silt scalar Debris scalar	ASTM D5185m	3114	3706	3272	3220
Zinc ppm Sulfur ppm CONTAMINANTS Silicon ppm Sodium ppm Potassium ppm VISUAL White Metal scalar Yellow Metal scalar Precipitate scalar Silt scalar Debris scalar	ASTM D5185m	1099	1042	1002	1028
CONTAMINANTS Silicon ppm Sodium ppm Potassium ppm VISUAL White Metal scalar Yellow Metal scalar Precipitate scalar Silt scalar Debris scalar	ASTM D5185m	1245	1375	1255	1278
Silicon ppm Sodium ppm Potassium ppm VISUAL White Metal scalar Yellow Metal scalar Precipitate scalar Silt scalar Debris scalar	ASTM D5185m	7086	4850	5164	5628
Sodium ppm Potassium ppm VISUAL White Metal scalar Yellow Metal scalar Precipitate scalar Silt scalar Debris scalar	method	limit/base	current	history1	history2
Potassium ppm VISUAL White Metal scalar Yellow Metal scalar Precipitate scalar Silt scalar Debris scalar	ASTM D5185m	>400	8	11	11
VISUAL White Metal scalar Yellow Metal scalar Precipitate scalar Silt scalar Debris scalar	ASTM D5185m		0	<1	1
White Metal scalar Yellow Metal scalar Precipitate scalar Silt scalar Debris scalar	ASTM D5185m	>20	<1	1	3
Yellow Metal scalar Precipitate scalar Silt scalar Debris scalar	method	limit/base	current	history1	history2
Precipitate scalar Silt scalar Debris scalar	*Visual	NONE	NONE	NONE	NONE
Silt scalar Debris scalar	*Visual	NONE	NONE	NONE	NONE
Debris scalar	*Visual	NONE	NONE	NONE	NONE
	*Visual	NONE	NONE	NONE	NONE
	*Visual	NONE	NONE	NONE	NONE
Janu/Din Scalar		NONE	NONE	NONE	NONE
	*Visual	NORML	NORML	NORML	NORML
	*Visual *Visual	NORML	NORML	NORML	NORML
	*Visual		NEG	NEG	NEG
	*Visual *Visual	>0.2			NEG
FLUID PROPERTIES	*Visual	>0.2	NEG	NEG	

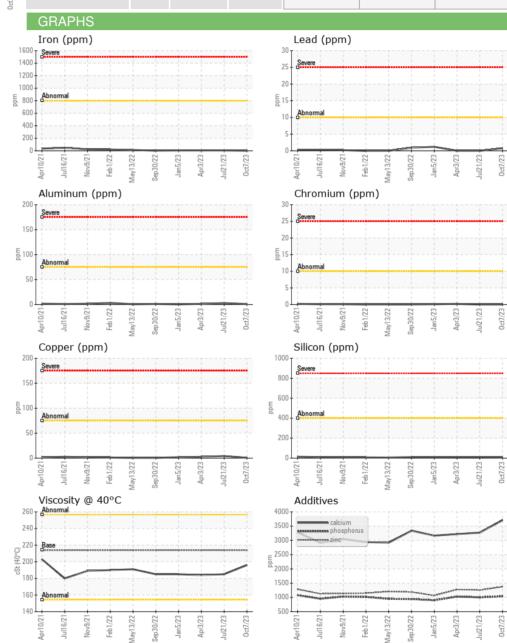
Visc @ 40°C

185



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

Test Package : MOB 1

: 05980721

: PCA0084299 : 10698016

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Oct 2023 : 18 Oct 2023 Diagnosed Diagnostician : Sean Felton

Kemp Quarries - Pryor Stone - Pryor

1050 E 520 Rd Pryor, OK US 74361

Contact:

F:

pryor@pryorstone.com T:

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)