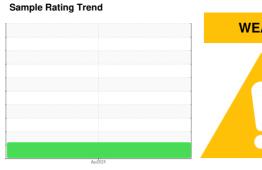




KEMP QUARRIES / PRYOR STONE [70370] MG003

Diesel Engine

PETRO CANADA DURO





DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Pm1 performed. Engine oil sample taken. Engine oil, engine oil filters, and fuel filters changed.)

Wear

The iron level is abnormal. All other metal levels are typical for a new component breaking in.

Contamination

Moderate concentration of visible dirt/debris present in the oil.

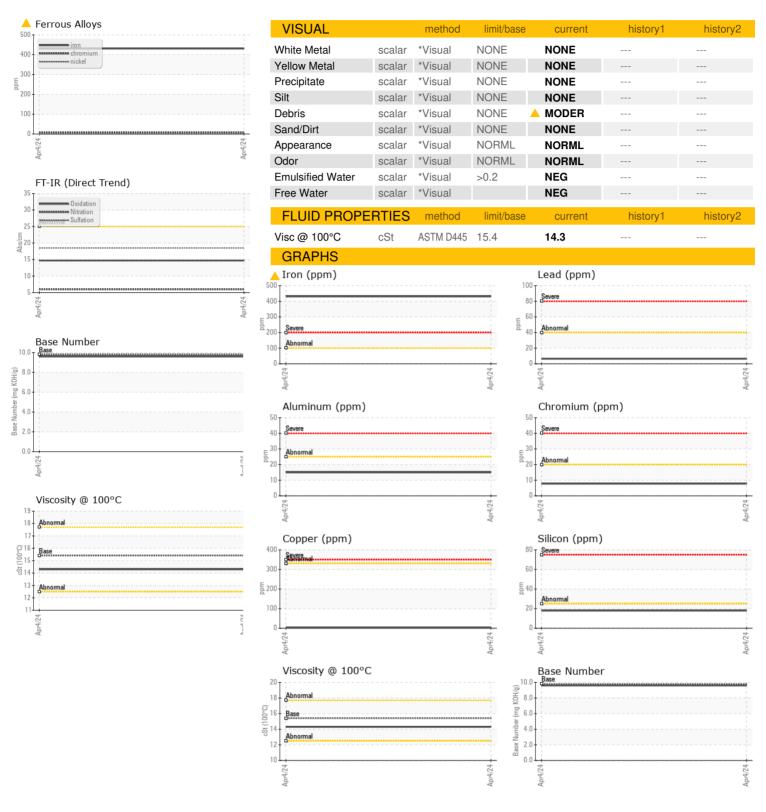
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

N SHP 15W40 (- GAL)			Apr2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0086649		
Sample Date		Client Info		04 Apr 2024		
Machine Age	hrs	Client Info		37		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	431		
Chromium	ppm	ASTM D5185m	>20	8		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>25	15		
Lead	ppm	ASTM D5185m	>40	6		
Copper	ppm	ASTM D5185m	>330	4		
Tin	ppm	ASTM D5185m	>15	1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	22		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	63		
Manganese	ppm	ASTM D5185m		4		
Magnesium	ppm	ASTM D5185m	1010	998		
Calcium	ppm	ASTM D5185m	1070	1255		
Phosphorus	ppm	ASTM D5185m	1150	1109		
Zinc	ppm	ASTM D5185m	1270	1306		
Sulfur	ppm	ASTM D5185m	2060	3779		
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	18		
Sodium	ppm	ASTM D5185m	00	2		
Potassium	ppm	ASTM D5185m	>20	0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	6.0		
Sulfation	Abs/.1mm		>30	18.5		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.6		



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

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

: PCA0086649 Lab Number : 06149293

Unique Number : 10979371

Test Package : MOB 1 (Additional Tests: TBN)

Received : 15 Apr 2024 **Tested** Diagnosed

: 16 Apr 2024 : 17 Apr 2024 - Don Baldridge

1050 E 520 Rd

pryor@pryorstone.com

Kemp Quarries - Pryor Stone - Pryor

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

Pryor, OK

US 74361

Contact:

T:

F: