

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id 948012

Transmission (Auto)

PETRO CANADA DuraDrive HD Synthetic 668 (32 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

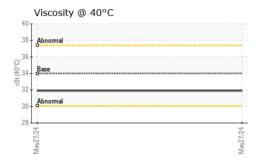
Fluid Condition

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

Oil Age Oil Changed Sample Status CONTAMINATIO Water WEAR METALS Iron Phoremium Nickel Pitanium Silver Aluminum Lead Copper Tin Vanadium Cadmium Phosphorus Phosphorus Phosphorus Phosphorus Sulfur Sulfu	ppm ppm ppm ppm ppm	method Client Info Method Method Method ASTM D5185m	limit/base >0.1 limit/base >325 >2 >2 >2 >3 >5 >75 >40 >50 >10	current GFL0121864 27 May 2024 398 0 Changed NORMAL current NEG current 28 0 0 <1 0 16 8 12 4	history1 history1 history1	history2 history2 history2
Sample Date Machine Age Oil Age Oil Age Oil Changed Sample Status CONTAMINATIO Water WEAR METALS Iron Phickel Titanium Phickel Titanium Phosphorus Phosphorus Phosphorus Phosplorus Phosplorus Sulfur Phosphorus Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	Client Info Client Info Client Info Client Info Client Info Method WC Method ASTM D5185m	>0.1 limit/base >325 >2 >2 >3 >5 >75 >40 >50	27 May 2024 398 0 Changed NORMAL	history1 history1	history2 history2
Machine Age h Oil Age h Oil Age h Oil Changed Sample Status CONTAMINATIO Water WEAR METALS Iron p Chromium p Nickel p Titanium p Silver p Aluminum p Lead p Copper p Tin p Vanadium p Cadmium p ADDITIVES Boron p Barium p Molybdenum p Manganese p Magnesium p Calcium p Phosphorus p Zinc p Sulfur p	ppm ppm ppm ppm ppm ppm ppm ppm	Client Info Client Info Client Info Client Info Method WC Method ASTM D5185m	>0.1 limit/base >325 >2 >2 >3 >5 >75 >40 >50	398 0 Changed NORMAL current NEG current 28 0 0 <1 0 16 8 12	history1 history1	history2 history2
Oil Age h Oil Changed Sample Status CONTAMINATIO Water WEAR METALS Iron p Chromium p Nickel p Titanium p Silver p Aluminum p Lead p Copper p Tin p Vanadium p Vanadium p ADDITIVES Boron p Barium p Molybdenum p Manganese p Magnesium p Calcium p Phosphorus p Sulfur p CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	Client Info Client Info Client Info Method WC Method ASTM D5185m	>0.1 limit/base >325 >2 >2 >3 >5 >75 >40 >50	O Changed NORMAL current NEG current 28 O Current 16 8 12	history1 history1	history2 history2
Oil Changed Sample Status CONTAMINATIO Water WEAR METALS Iron p Chromium p Nickel p I'itanium p Silver p Aluminum p Lead p Copper p I'in p Vanadium p Cadmium p ADDITIVES Boron p Barium p Molybdenum p Manganese p Magnesium p Calcium p Phosphorus p Sulfur p CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	method WC Method MSTM D5185m ASTM D5185m	>0.1 limit/base >325 >2 >2 >3 >5 >75 >40 >50	Changed NORMAL current NEG current 28 0 0 0 <11 0 16 8 12	history1 history1	history2 history2
CONTAMINATIO Water WEAR METALS Iron p Chromium p Nickel p Titanium p Silver p Aluminum p Lead p Copper p Tin p Vanadium p Cadmium p Molybdenum p Molybdenum p Manganese p Magnesium p Calcium p Phosphorus p Sulfur p CONTAMINANTS	opm	method WC Method method ASTM D5185m	>0.1 limit/base >325 >2 >2 >3 >5 >75 >40 >50	NORMAL current NEG current 28 0 0 <1 0 16 8 12	history1 history1	history2 history2
CONTAMINATIO Water WEAR METALS Iron p Chromium p Nickel p Titanium p Silver p Aluminum p Lead p Copper p Tin p Vanadium p Cadmium p ADDITIVES Boron p Barium p Molybdenum p Manganese p Magnesium p Calcium p Phosphorus p Sulfur p CONTAMINANTS	opm	WC Method method ASTM D5185m	>0.1 limit/base >325 >2 >2 >3 >5 >75 >40 >50	current NEG	history1 history1	history2 history2
Water WEAR METALS Iron p Chromium p Nickel p Itanium p Silver p Aluminum p Lead p Copper ITIN p Vanadium p Cadmium p Molybdenum p Manganese p Magnesium p Calcium p Calcium p Calcium p Contamination p Calcium p Calcium p Contamination p Calcium p Contamination p Calcium p Contamination p Contaminatio	opm	WC Method method ASTM D5185m	>0.1 limit/base >325 >2 >2 >3 >5 >75 >40 >50	NEG current 28 0 0 <1 0 16 8 12	history 1	history2
WEAR METALS Iron p Chromium p Nickel p Titanium p Silver p Aluminum p Lead p Copper p Tin p Vanadium p Cadmium p Manganese p Magnesium p Calcium p Phosphorus p Sulfur p CONTAMINANTS	opm	method ASTM D5185m	limit/base >325 >2 >2 >2 >3 >5 >40 >50	current 28 0 0 <1 0 16 8 12	history1	
Iron p Chromium p Nickel p Titanium p Silver p Aluminum p Lead p Copper p Tin p Vanadium p Cadmium p Manganese p Magnesium p Calcium p Phosphorus p Sulfur p CONTAMINANTS	opm	ASTM D5185m ASTM D5185m	>325 >2 >2 >3 >5 >75 >40 >50	28 0 0 <1 0 16 8 12		
Chromium Nickel Pitanium Silver Aluminum Lead Copper Fin Vanadium Cadmium Parium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Phosphorus putch Contamina potential	opm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>2 >2 >3 >5 >75 >40 >50	0 0 <1 0 16 8 12		
Nickel p Fitanium p Silver p Aluminum p Lead p Copper p Fin p Vanadium p Cadmium p ADDITIVES Boron p Barium p Molybdenum p Manganese p Magnesium p Calcium p Phosphorus p Sulfur p CONTAMINANTS	opm opm opm opm opm opm opm opm opm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>2 >3 >5 >75 >40 >50	0 <1 0 16 8 12		
Fitanium p Silver p Aluminum p Lead p Copper p Fin p Vanadium p Cadmium p ADDITIVES Boron p Barium p Molybdenum p Manganese p Magnesium p Calcium p Phosphorus p Sulfur p CONTAMINANTS	opm opm opm opm opm opm opm opm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>3 >5 >75 >40 >50	<1 0 16 8 12		
Silver p Aluminum p Lead p Copper p Tin p Vanadium p Cadmium p ADDITIVES Boron p Barium p Molybdenum p Manganese p Magnesium p Calcium p Phosphorus p Sulfur p CONTAMINANTS	opm opm opm opm opm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>5 >75 >40 >50	0 16 8 12		
Aluminum p Lead p Copper p Tin p Vanadium p Cadmium p ADDITIVES Boron p Barium p Molybdenum p Manganese p Magnesium p Calcium p Phosphorus p Sulfur p CONTAMINANTS	opm opm opm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>75 >40 >50	16 8 12		
Lead p Copper p Fin p Vanadium p Cadmium p ADDITIVES Boron p Barium p Molybdenum p Manganese p Magnesium p Calcium p Phosphorus p Sulfur p CONTAMINANTS	opm opm opm opm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>40 >50	8 12		
Copper prin prin prin prin prin prin prin pri	opm opm	ASTM D5185m ASTM D5185m ASTM D5185m	>50	12		
Tin p Vanadium p Cadmium p ADDITIVES Boron p Barium p Molybdenum p Manganese p Magnesium p Calcium p Phosphorus p Sulfur p CONTAMINANTS	ppm ppm	ASTM D5185m ASTM D5185m				
Vanadium p Cadmium p ADDITIVES Boron p Barium p Molybdenum p Manganese p Magnesium p Calcium p Phosphorus p Sulfur p CONTAMINANTS	pm	ASTM D5185m	>10	4		
Cadmium p ADDITIVES Boron p Barium p Molybdenum p Manganese p Magnesium p Calcium p Phosphorus p Sulfur p CONTAMINANTS				-		
ADDITIVES Boron p Barium p Molybdenum p Manganese p Magnesium p Calcium p Phosphorus p Zinc p CONTAMINANTS	pm	ASTM D5185m		<1		
Boron p Barium p Molybdenum p Manganese p Magnesium p Calcium p Phosphorus p Zinc p Sulfur p CONTAMINANTS				<1		
Barium p Molybdenum p Manganese p Magnesium p Calcium p Phosphorus p Sulfur p CONTAMINANTS		method	limit/base	current	history1	history2
Molybdenum p Manganese p Magnesium p Calcium p Phosphorus p Sulfur p CONTAMINANTS	pm	ASTM D5185m		102		
Manganese p Magnesium p Calcium p Phosphorus p Zinc p Sulfur p CONTAMINANTS	pm	ASTM D5185m		0		
Magnesium p Calcium p Phosphorus p Zinc p Gulfur p CONTAMINANTS	pm	ASTM D5185m		<1		
Calcium p Phosphorus p Zinc p Sulfur p CONTAMINANTS	pm	ASTM D5185m		<1		
Phosphorus p Zinc p Sulfur p CONTAMINANTS	pm	ASTM D5185m		2		
Zinc p Sulfur p CONTAMINANTS	pm	ASTM D5185m		120		
Sulfur p CONTAMINANTS	pm	ASTM D5185m		279		
CONTAMINANTS	pm	ASTM D5185m		29		
	pm	ASTM D5185m		1433		
Silicon	S	method	limit/base	current	history1	history2
ушсоп р	pm	ASTM D5185m	>20	4		
Sodium p	pm	ASTM D5185m		10		
Potassium p	pm	ASTM D5185m	>20	1		
VISUAL		method	limit/base	current	history1	history2
White Metal se	calar	*Visual	NONE	NONE		
Yellow Metal s	calar	*Visual	NONE	NONE		
Precipitate s	calar	*Visual	NONE	NONE		
Silt	calar	*Visual	NONE	NONE		
Debris s	calar	*Visual	NONE	NONE		
Sand/Dirt se		*Visual	NONE	NONE		
Appearance s	calar	*Visual	NORML	NORML		
Odor	calar calar	*\ /:	NORML	NORML		
Emulsified Water s		*Visual	>0 1	NEG		
Free Water se	calar	*Visual	>0.1			

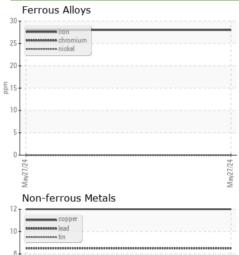


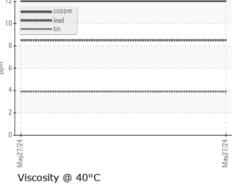
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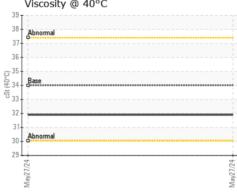




GRAPHS









Laboratory

Sample No. : GFL0121864 Lab Number : 06197159 Unique Number : 11059282

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

: 31 May 2024 Tested : 03 Jun 2024 Diagnosed : 03 Jun 2024 - Wes Davis

1050 E 520 Rd Pryor, OK US 74361

Test Package : FLEET Certificate 12367

Contact: pryor@pryorstone.com

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)

Report Id: KEMPRY [WUSCAR] 06197159 (Generated: 06/03/2024 11:10:08) Rev: 1

Kemp Quarries - Pryor Stone - Pryor

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