

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 2126999

Component Hydraulic System

PETRO CANADA HYDREX MV 36 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

Fluid Condition

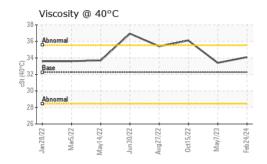
The condition of the fluid is acceptable for the time in service.

Jan2022 Max2022 Max2022 Jun2022 Oct2022 Oct2022 Max2023 Feb2024									
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		PCA0118409	PCA0092455	PCA0076965			
Sample Date		Client Info		24 Feb 2024	07 May 2023	15 Oct 2022			
Machine Age	mls	Client Info		0	191708	112753			
Oil Age	mls	Client Info		15000	24000	15000			
Oil Changed		Client Info		Not Changd	Changed	Not Changd			
Sample Status				NORMAL	ABNORMAL	NORMAL			
CONTAMINAT		method	limit/base	current	history1	history2			
Water		WC Method		NEG	NEG	NEG			
WEAR METAL	S	method	limit/base	current	history1	history2			
		ASTM D5185m	>20	1	7	0			
Iron Chromium	ppm		>20	0	0	0			
Nickel	ppm	ASTM D5185m ASTM D5185m	>20	0	0	0			
	ppm		>20	-					
Titanium Silver	ppm	ASTM D5185m		1 0	<1	<1 0			
	ppm	ASTM D5185m	. 20	0		0			
Aluminum Lead	ppm	ASTM D5185m ASTM D5185m	>20 >20	-	<1 0	0			
	ppm			0	2				
Copper	ppm	ASTM D5185m	>20	0		0			
Tin	ppm	ASTM D5185m	>20	0	0	0			
Vanadium	ppm	ASTM D5185m		0	0	0			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	3	5	0			
Barium	ppm	ASTM D5185m	0	0	0	0			
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m	0	1	0 2	<1			
		ASTM D5185m		-					
Molybdenum	ppm	ASTM D5185m	0	1	2	<1			
Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m	0	1 0	2	<1 0			
Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 1 0	1 0 21	2 0 27	<1 0 11			
Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 1 0 135	1 0 21 122	2 0 27 135	<1 0 11 80			
Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 1 0 135 236	1 0 21 122 370	2 0 27 135 377	<1 0 11 80 365			
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 1 0 135 236 317	1 0 21 122 370 442	2 0 27 135 377 460	<1 0 11 80 365 473			
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 1 0 135 236 317 561 limit/base	1 0 21 122 370 442 1374	2 0 27 135 377 460 1528	<1 0 11 80 365 473 1311			
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	0 1 0 135 236 317 561 limit/base	1 0 21 122 370 442 1374 current	2 0 27 135 377 460 1528 history1	<1 0 11 80 365 473 1311 history2			
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	0 1 0 135 236 317 561 limit/base	1 0 21 122 370 442 1374 current <1	2 0 27 135 377 460 1528 history1 2	<1 0 11 80 365 473 1311 history2 <1			
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	0 1 0 135 236 317 561 <i>limit/base</i> >15	1 0 21 122 370 442 1374 current <1 0	2 0 27 135 377 460 1528 history1 2 0	<1 0 11 80 365 473 1311 history2 <1 0			
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 1 0 135 236 317 561 limit/base >15 >20	1 0 21 122 370 442 1374 current <1 0 0	2 0 27 135 377 460 1528 history1 2 0 1	<1 0 11 80 365 473 1311 history2 <1 0 0			
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m	0 1 0 135 236 317 561 561 imit/base >20 imit/base	1 0 21 122 370 442 1374 current <1 0 0 0	2 0 27 135 377 460 1528 history1 2 0 1 history1	<1 0 11 80 365 473 1311 history2 <1 0 0 0 history2			
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m method	0 1 1 35 236 317 561 561 561 20 20 20 <u>limit/base</u> NONE	1 0 21 122 370 442 1374 current <1 0 0 0 current NONE	2 0 27 135 377 460 1528 history1 2 0 1 1 history1 NONE	<1 0 11 80 365 473 1311 history2 <1 0 0 0 history2 NONE			
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m Y Usual	0 1 1 35 236 317 561 imit/base >15 >20 imit/base NONE NONE	1 0 21 122 370 442 1374 current <1 0 0 0 current NONE NONE NONE	2 0 27 135 377 460 1528 history1 2 0 1 1 history1 NONE NONE	<1 0 11 80 365 473 1311 history2 <1 0 0 0 history2 NONE NONE			
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m Y Usual *Visual	0 1 0 135 236 317 561 imit/base >20 imit/base NONE NONE NONE NONE	1 0 21 122 370 442 1374 current <1 0 0 0 current NONE NONE NONE	2 0 27 135 377 460 1528 history1 2 0 1 2 0 1 1 NONE NONE NONE NONE	<1 0 11 80 365 473 1311 history2 <1 0 0 0 history2 NONE NONE NONE NONE			
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual	0 1 0 135 236 317 561 561 imit/base >15 >20 imit/base NONE NONE NONE NONE NONE	1 0 21 122 370 442 1374 current <1 0 0 current NONE NONE NONE NONE NONE	2 0 27 135 377 460 1528 history1 2 0 1 2 0 1 1 NONE NONE NONE NONE NONE	<1 0 11 80 365 473 1311 history2 <1 0 0 kistory2 NONE NONE NONE NONE NONE			
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Yisual *Visual *Visual *Visual	0 1 0 135 236 317 561 imit/base >15 	1 0 21 122 370 442 1374 current <1 0 0 0 current NONE NONE NONE NONE NONE NONE	2 0 27 135 377 460 1528 history1 2 0 1 2 0 1 1 <u>history1</u> NONE NONE NONE NONE NONE NONE	<1 0 11 80 365 473 1311 history2 <1 0 0 history2 NONE NONE NONE NONE NONE NONE NONE			
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual	0 1 0 135 236 317 561 imit/base >15 >20 imit/base NONE NONE NONE NONE NONE NONE NONE NONE	1 0 21 122 370 442 1374 current <1 0 0 0 current NONE NONE NONE NONE NONE NONE NONE NON	2 0 27 135 377 460 1528 history1 2 0 1 2 0 1 1 NONE NONE NONE NONE NONE NONE NONE	<1 0 11 80 365 473 1311 history2 <1 0 0 vistory2 NONE NONE NONE NONE NONE NONE NONE NON			
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual *Visual	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0 21 122 370 442 1374 current <1 0 0 0 current NONE NONE NONE NONE NONE NONE NONE NON	2 0 27 135 377 460 1528 history1 2 0 1 2 0 1 1 NONE NONE NONE NONE NONE NONE NONE	<1 0 11 80 365 473 1311 history2 <1 0 0 istory2 NONE NONE NONE NONE NONE NONE NONE NON			
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0 21 122 370 442 1374 current <1 0 0 0 current NONE NONE NONE NONE NONE NONE NONE NON	2 0 27 135 377 460 1528 history1 2 0 1 2 0 1 2 0 1 1 NONE NONE NONE NONE NONE NONE NONE	<1 0 11 80 365 473 1311 history2 <1 0 0 vistory2 NONE NONE NONE NONE NONE NONE NONE NON			

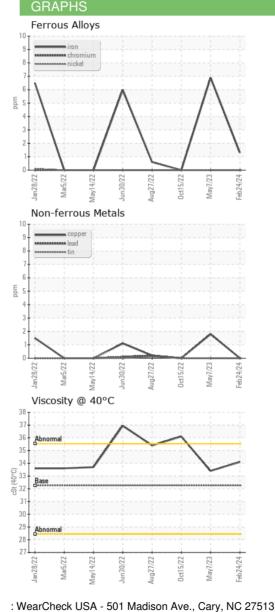
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OIL ANALYSIS REPORT



FLUID PROF	PERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32.25	34.1	33.4	36.1
SAMPLE IMA	AGES	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image



PERDUE FARMS - SALISBURY 7036 ZION CHURCH ROAD

Unique Number : 10926836 Diagnosed : 15 Mar 2024 - Don Baldridge US 21802 Test Package : FLEET Contact: RICHARD O`NEAL Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. richard.oneal@perdue.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (410)543-3628 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (410)341-2164

Received

Tested

: 13 Mar 2024

: 14 Mar 2024

Laboratory

Sample No.

Lab Number : 06118003

: PCA0118409

SALISBURY, MD