

OIL ANALYSIS REPORT

HDXMV32BLKTOP

Component
2 New (Unused) Oil
Fluid

WADDICK FUELS MV 32 (--- LTR)

Sample Rating Trend



DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample.

Wear

{not applicable}

Contamination

{not applicable}

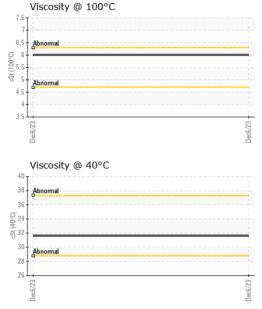
Fluid Condition

{not applicable}

CAMBLE INCODE	MATION			Dec2023		111
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC		
Sample Date		Client Info		06 Dec 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)		0		
Chromium	ppm	ASTM D5185(m)		0		
Nickel	ppm	ASTM D5185(m)		0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)		<1		
Lead	ppm	ASTM D5185(m)		0		
Copper	ppm	ASTM D5185(m)		<1		
Tin	ppm	ASTM D5185(m)		0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		0		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		1		
Calcium	ppm	ASTM D5185(m)		59		
Phosphorus	ppm	ASTM D5185(m)		367		
Zinc	ppm	ASTM D5185(m)		451		
Sulfur	ppm	ASTM D5185(m)		852		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		<1		
o "						
Sodium	ppm	ASTM D5185(m)		0		
Potassium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	>20	0 <1		
		, ,	>20 limit/base			
Potassium		ASTM D5185(m)		<1		
Potassium INFRA-RED Soot %	ppm %	ASTM D5185(m) method ASTM D7844*		<1 current	history1	history2
Potassium INFRA-RED	ppm	ASTM D5185(m) method		<1 current	history1	history2
Potassium INFRA-RED Soot % Nitration	% Abs/cm Abs/.1mm	ASTM D5185(m) method ASTM D7844* ASTM D7624*		<1 current 0 1.6	history1	history2



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VISUAL		method	limit/base	current	history1	history2			
					HISTOTYT	Historyz			
White Metal	scalar	Visual*	NONE	NONE					
Yellow Metal	scalar	Visual*	NONE	NONE					
Precipitate	scalar	Visual*	NONE	NONE					
Silt	scalar	Visual*	NONE	NONE					
Debris	scalar	Visual*	NONE	NONE					
Sand/Dirt	scalar	Visual*	NONE	NONE					
Appearance	scalar	Visual*	NORML	NORML					
Odor	scalar	Visual*	NORML	NORML					
Emulsified Water	scalar	Visual*		NEG					
Free Water	scalar	Visual*		NEG					
FLUID PROPE	RTIES	method	limit/base	current	history1	history2			
Visc @ 40°C	cSt	ASTM D7279(m)		31.6					
Visc @ 100°C	cSt	ASTM D7279(m)		6					
Viscosity Index (VI)	Scale	ASTM D2270*		138					
SAMPLE IMAG	ES	method	limit/base	current	history1	history2			
Color					no image	no image			
Bottom					no image	no image			
GRAPHS									



CALA ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No. Lab Number Unique Number : 5698006

: PC : 02604921

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Petro-Canada Technical/Nick Finelli Recieved

Diagnosed Diagnostician : Kevin Marson Test Package : TEST (Additional Tests: FT-IR, ICP, KV100, KV40, Spat, VI)

: 22 Dec 2023 : 27 Dec 2023

Mississauga, ON CA L5J 1K2 Contact: Nick Finelli nick.finelli@hfsinclair.com

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

F: (877)352-8916