

WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

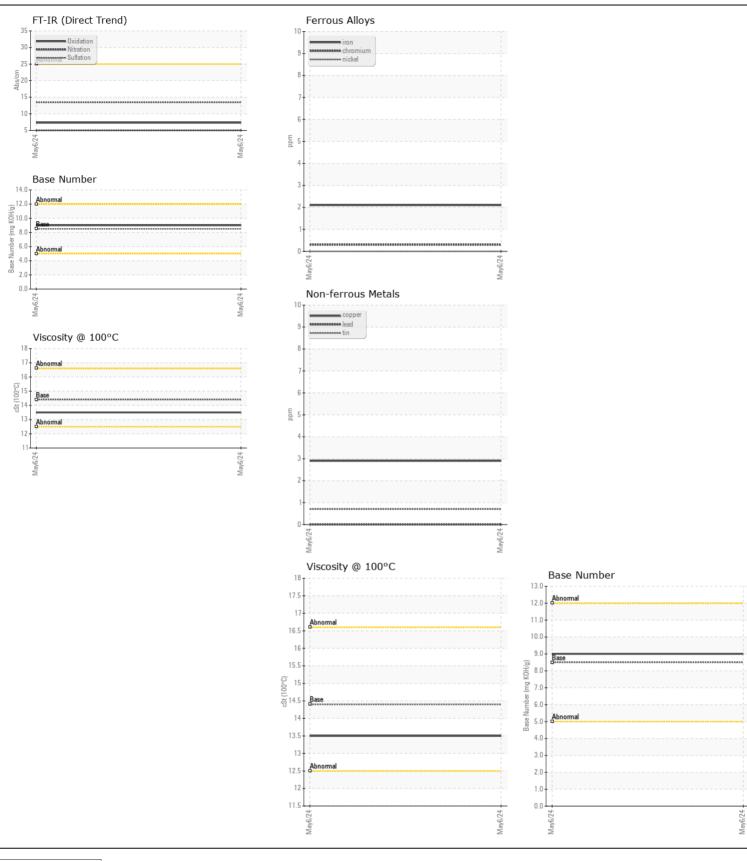
BERNSTENGEL EQUIPMENT

10032291

Propane Engine

DIESEL ENGINE OIL SAE 40 (--- GAL)

Test	DIEGEL ENGINE OIL OAL 40 (GAL)							
Sample Date	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Dies Client Info	specified, however, a fluid match indicates that this fluid is (GENERIC)	Sample Number		Client Info		WC0939961		
DiESEL ENGINE OIL SAE 40. Please confirm.		Sample Date		Client Info		06 May 2024		
Please specify the component make and model with your next sample. Filter Age hrs Client Info 0		Machine Age	hrs	Client Info		6361		
Cilchanged Cilchit Info NA NA NA NA NA NA NA N		Oil Age	hrs	Client Info		0		
Common		Filter Age	hrs	Client Info		0		
Filter Changed Sample Status		_		Client Info		N/A		
NoRMAL N		Filter Changed		Client Info		N/A		
Chromium ppm ASTM 05185m 225 41 Nicker ppm ASTM 05185m 25 6 0 Titanium ppm ASTM 05185m 5 0 Titanium ppm ASTM 05185m 5 0 Aluminum ppm ASTM 05185m 20 1 Aluminum ppm ASTM 05185m 220 1 Lead ppm ASTM 05185m 220 1 Lead ppm ASTM 05185m 220 1 Copper ppm ASTM 05185m 220 1 Tin ppm ASTM 05185m 220 1 Vanadium ppm ASTM 05185m 28 4 1 Vanadium ppm ASTM 05185m 28 4 1 Vanadium ppm ASTM 05185m 28 4 1 Vanadium ppm ASTM 05185m 20 0 Valued Visual NONE NONE NONE Valued None None None Sulfation Absclim ASTM 07242 20 5.0 Sulfation Absclim ASTM 07242 20 5.0 Appearance scalar Visual None None FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. Sodium ppm ASTM 05185m 250 96 Fluid Condition Absclim Appearance Scalar Visual None		Sample Status				NORMAL		
Chromium ppm ASTM 05185m 25 41	WEAD			ACTM DE10E	100	•		
Nickel ppm ASTM DSISS S 0	WEAR							
Titlanium ppm ASTM D6186m 5 0	All component wear rates are normal.							
Silver ppm ASTM D5185m >20 0					>5			
Aluminum					_			
Lead ppm ASTM D5185m >2.5 0								
Copper ppm ASTM D5185m >85 3								
Tin								
Vanadium Vanadium								
White Metal Yellow Metal Scalar "Visual NONE NONE NONE					>8			
Vellow Metal Scalar Visual NONE NONE CONTAMINATION There is no indication of any contamination in the oil. Potassium ppm ASTM D5185m >20 0 Water WC Method >0.1 NEG Water WC Method >0.1 NEG Soot % % ASTM D7844 >0 Sulfation Abs/.tmm ASTM D7845 >30 13.4 Sulfation Abs/.tmm ASTM D7415 >30 13.4 Sulfation Abs/.tmm ASTM D7415 >30 13.4 Sand/Dirt Scalar Visual NONE NONE Appearance Scalar Visual NORML NORM						-		
Silicon ppm ASTM D5185m >20 0								
Potassium ppm ASTM D5185m >20 0 Wolf Method >0.1 NEG NEG Nitration Abs/cm *ASTM D7844 0 0 Nitration Abs/cm *ASTM D7624 >20 5.0 Nitration Abs/cm *ASTM D7624 >20 5.0 Nitration Abs/cm *ASTM D7624 >20 5.0 NoNE Abs/cm *ASTM D7624 >20 5.0 NoNE NoNE NoNE NoNE NoNE NoNE NoNE Appearance Scalar *Visual NONE NO		Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium ppm ASTM D5185m >20 0 NEG NEG Nitration Abs/cm 'ASTM D7844 0 Nitration Abs/cm 'ASTM D7624 >20 5.0 NONE	CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	8		
Valer		Potassium	ppm	ASTM D5185m	>20	0		
Nitration Abs/cm *ASTM D7624 >20 5.0 Sulfation Abs/lmm ASTM D7415 >30 13.4 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML	There is no indication of any contamination in the oil.	Water		WC Method	>0.1	NEG		
Sulfation Abs./imm "ASTM D7415 >30 13.4		Soot %	%	*ASTM D7844		0		
Silt scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORM NORM NORM NORM Sand/Dirt Scalar *Visual NORM NORM NORM Sand/Dirt Scalar *Visual NORM NORM NORM Sand/Dirt Scalar *Visual NORM Sand/Dirt Scalar *Visual NORM Sand/Dirt Scalar *Visual NORM Scalar *Visual *NORM NORM NORM Scalar *Visual *NORM NORM Scalar *Visual *NORM NORM Scalar *Visual *NORM NORM NORM NORM NORM NORM Norm *NORM NORM		Nitration	Abs/cm	*ASTM D7624	>20	5.0		
Debris Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NORML NORML Sand/Dirt Scalar *Visual NORML NORML Sand/Dirt Scalar *Visual NORML Sand/Dirt Scalar *Visual NORML Sand/Dirt Scalar *Visual Sand/Dirt Sand/		Sulfation	Abs/.1mm	*ASTM D7415	>30	13.4		
Sand/Dirt Scalar *Visual NONE NORE Appearance Scalar *Visual NORML		Silt	scalar	*Visual	NONE	NONE		
Appearance Scalar *Visual NORML NORM		Debris	scalar	*Visual	NONE	NONE		
Calcium Calc		Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.1 NEG		Appearance	scalar	*Visual	NORML	NORML		
Sodium ppm ASTM D5185m >216 <1 Boron ppm ASTM D5185m 250 96 Barium ppm ASTM D5185m 10 0 Molybdenum ppm ASTM D5185m 100 39 Magnesium ppm ASTM D5185m 450 69 Magnesium ppm ASTM D5185m 3000 3186 Phosphorus ppm ASTM D5185m 1150 868 Sulfur ppm ASTM D5185m 4250 3541 Oxidation Abs/.imm *ASTM D5185m 4250 3541 Base Number (BN) mg KOHg ASTM D2896 8.5 9.0		Odor	scalar	*Visual	NORML	NORML		
Boron ppm ASTM D5185m 250 96 Barium ppm ASTM D5185m 10 0 Molybdenum ppm ASTM D5185m 100 39 Magnesium ppm ASTM D5185m 100 39 Magnesium ppm ASTM D5185m 450 69 Calcium ppm ASTM D5185m 3000 3186 Phosphorus ppm ASTM D5185m 1150 868 Zinc ppm ASTM D5185m 1350 999 Sulfur ppm ASTM D5185m 4250 3541 Oxidation Abs/.1mm *ASTM D7414 >25 7.3 Base Number (BN) mg KOH/g ASTM D2896 8.5 9.0		Emulsified Water	scalar	*Visual	>0.1	NEG		
Boron ppm ASTM D5185m 250 96 Barium ppm ASTM D5185m 10 0 Molybdenum ppm ASTM D5185m 100 39 Magnesium ppm ASTM D5185m 100 39 Magnesium ppm ASTM D5185m 450 69 Calcium ppm ASTM D5185m 3000 3186 Phosphorus ppm ASTM D5185m 1150 868 Zinc ppm ASTM D5185m 1350 999 Sulfur ppm ASTM D5185m 4250 3541 Oxidation Abs/.1mm *ASTM D7414 >25 7.3 Base Number (BN) mg KOH/g ASTM D2896 8.5 9.0	ELUID CONDITION	Sodium	nnm	ASTM D5185m	>216	_1		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. Barium ppm ASTM D5185m 100 39 Manganese ppm ASTM D5185m 100 39 Magnesium ppm ASTM D5185m 450 69 Calcium ppm ASTM D5185m 3000 3186 Phosphorus ppm ASTM D5185m 1150 868 Zinc ppm ASTM D5185m 1350 999 Sulfur ppm ASTM D5185m 4250 3541 Oxidation Abs/.1mm *ASTM D7414 >25 7.3 Base Number (BN) mg KOH/g ASTM D2896 8.5 9.0	The BN result indicates that there is suitable alkalinity remaining in the		• •					
Molybdenum ppm ASTM D5185m 100 39 Magnesium ppm ASTM D5185m 450 69 Calcium ppm ASTM D5185m 3000 3186 Phosphorus ppm ASTM D5185m 1150 868 Zinc ppm ASTM D5185m 1350 999 Sulfur ppm ASTM D5185m 1350 999 Sulfur ppm ASTM D5185m 4250 3541 Sulfur ppm ASTM D5185m 4250 3541 Base Number (BN) mg KOH/g ASTM D2896 8.5 9.0				ASTM D5185m	10	0		
Manganese ppm ASTM D5185m 1 Magnesium ppm ASTM D5185m 450 69 Calcium ppm ASTM D5185m 3000 3186 Phosphorus ppm ASTM D5185m 1150 868 Zinc ppm ASTM D5185m 1350 999 Sulfur ppm ASTM D5185m 4250 3541 Oxidation Abs/.1mm *ASTM D7414 >25 7.3 Base Number (BN) mg KOH/g ASTM D2896 8.5 9.0								
Magnesium ppm ASTM D5185m 450 69 Calcium ppm ASTM D5185m 3000 3186 Phosphorus ppm ASTM D5185m 1150 868 Zinc ppm ASTM D5185m 1350 999 Sulfur ppm ASTM D5185m 4250 3541 Oxidation Abs/.1mm *ASTM D7414 >25 7.3 Base Number (BN) mg KOH/g ASTM D2896 8.5 9.0		-						
Calcium ppm ASTM D5185m 3000 3186 Phosphorus ppm ASTM D5185m 1150 868 Zinc ppm ASTM D5185m 1350 999 Sulfur ppm ASTM D5185m 4250 3541 Oxidation Abs/.1mm *ASTM D7414 >25 7.3 Base Number (BN) mg KOH/g ASTM D2896 8.5 9.0					450			
Phosphorus ppm ASTM D5185m 1150 868 Zinc ppm ASTM D5185m 1350 999 Sulfur ppm ASTM D5185m 4250 3541 Oxidation Abs/.1mm *ASTM D7414 >25 7.3 Base Number (BN) mg KOH/g ASTM D2896 8.5 9.0		-						
Zinc ppm ASTM D5185m 1350 999 Sulfur ppm ASTM D5185m 4250 3541 Oxidation Abs/.1mm *ASTM D7414 >25 7.3 Base Number (BN) mg KOH/g ASTM D2896 8.5 9.0								
Sulfur ppm ASTM D5185m 4250 3541 Oxidation Abs/.1mm *ASTM D7414 >25 7.3 Base Number (BN) mg KOH/g ASTM D2896 8.5 9.0								
Oxidation Abs/.1mm *ASTM D7414 >25 7.3 Base Number (BN) mg KOH/g ASTM D2896 8.5 9.0		Sulfur						
Base Number (BN) mg KOH/g ASTM D2896 8.5 9.0								
			mg KOH/g					
		Visc @ 100°C						







Certificate L2367

Report Id: FORDEN [WUSCAR] 06176719 (Generated: 05/14/2024 11:38:48) Rev: 1

Laboratory Sample No.

Lab Number : 06176719 Unique Number : 11022772 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : WC0939961 : 13 May 2024 **Tested** : 14 May 2024

Diagnosed : 14 May 2024 - Wes Davis

FORKLIFT SELECT 12875 E 42ND AVE, SUITE 50

DENVER, CO US 80239

Contact: BYRON CHAPUIS BYRON@FORKLIFTSELECT.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)

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