

## Machine Id **272568** Component **Diesel Engine** Fluid **MOBIL DELVAC 1300 SUPER 15W40 (46 QTS)**

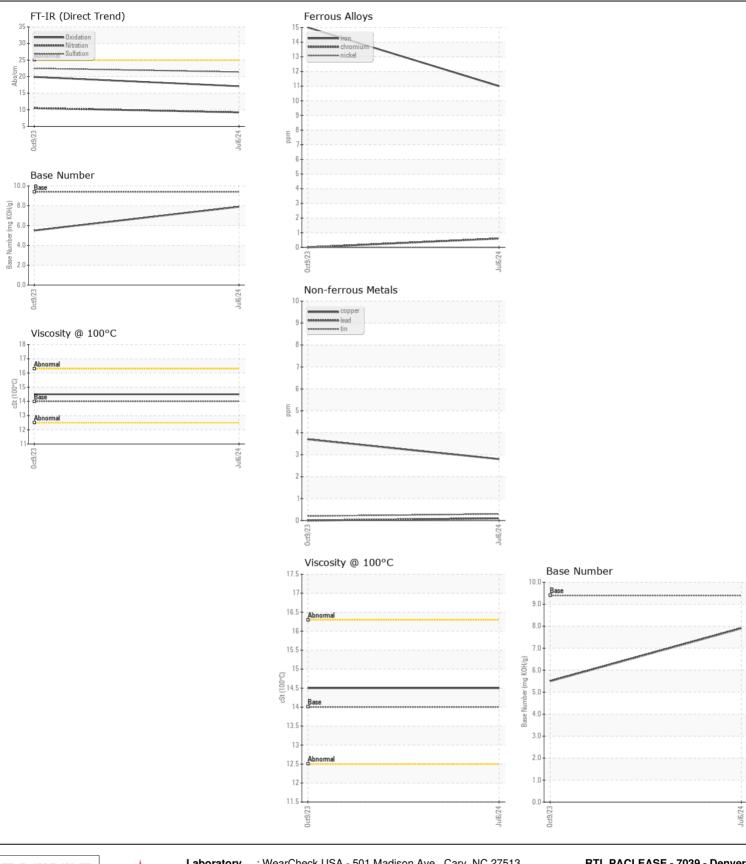
Test         UDM         Method         UTM         Hitory         Hitory         Hitory           Resample at the next service interval to monitor.         Sample Name         Client Into         Glavi 222         PD 2023								
Resample at the next service interval to monitor.         Sample Date Machine Age         Client Info         06 4.0224         00 0.0220            Machine Age         mis         Client Info         155216         27057            Piler Age         mis         Client Info         155216         27057            Piler Age         mis         Client Info         156216         27057            Ol Changed         Client Info         156216         27057            Ol Changed         Client Info         156216         27057            Ol Changed         Client Info         156216         27057            Othoremium         pom         ASIM 55155         30         11         5            Othoremium         pom         ASIM 55155         30         0         0         0            All component wear rates are normal.         Pom         ASIM 55155         30         0         0             All component wear rates are normal.         Pom         ASIM 55155         30         0         0            All component wear rates are normal.         Pom         <	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine parts         Control to the second parts         Conthe second parts         Control to the secon		Sample Number		Client Info		RPL0017877	RPL0007567	
Oil AgemisClient InfoIso 16521627.031.1Pice ChangedClient InfoChangedChangedChanged-Oil ChangedClient InfoChangedChanged-Biter ChangedClient InfoChanged-Changed-Summer ChangedClient InfoDistribution111.5-WEARIronpmASTL0585-20Client Info-All component wear rates are normal.ChangedPmASTL0585-20Client Info-ChangedpmASTL0585-20Client InfoAll component wear rates are normal.ChangedpmASTL0585-20Client InfoCommunpmASTL0585-20Sto1.11.0All component wear rates are normal.TitaniumpmASTL0585-20Sto1.1 <th>Sample Date</th> <td></td> <td>Client Info</td> <td></td> <th>06 Jul 2024</th> <td>09 Oct 2023</td> <td></td>		Sample Date		Client Info		06 Jul 2024	09 Oct 2023	
Filter Age OI Changed Filter Changed         Client Inio         ISE 216 Changed Filter Changed Filter Changed Filter Changed Filter Changed Filter Changed Sample Status         Client Inio         Changed Changed Filter Changed Filter Changed Fil		Machine Age	mls	Client Info		156216	88459	
Oil Changed Filter Changed         Cline Info         Changed Sampet         Changed Changed		Oil Age	mls	Client Info		156216	27057	
Filter Changed Sample Status         Clean Info         Changed NORMAL         Changed NORMAL		Filter Age	mls	Client Info		156216	27057	
Sample Status         NORMA         NORMA         Normation           WEAR         inon         ppn         All Component wear rates are normal.         inon         ppn         ASTM Distion         >20         11         15.5		Oil Changed		Client Info		Changed	Changed	
WEAR         Iron         ppm         ASTM D318/m         >100         11         15            All component wear rates are normal.         ppm         ASTM D318/m         >20         <1		Filter Changed		Client Info		Changed	Changed	
All component wear rates are normal.         Chromium         ppm         ASTM 0516m         20         <1         0            Nickel         ppm         ASTM 0516m          0         0            Silver         ppm         ASTM 0516m          0         0            Silver         ppm         ASTM 0516m          0            Silver         ppm         ASTM 0516m          0         0            Lead         ppm         ASTM 0516m		Sample Status				NORMAL	NORMAL	
All component wear rates are normal.         Chromium         ppm         ASTM 0516m         20         <1         0            Nickel         ppm         ASTM 0516m          0         0            Silver         ppm         ASTM 0516m          0         0            Silver         ppm         ASTM 0516m          0            Silver         ppm         ASTM 0516m          0         0            Lead         ppm         ASTM 0516m	WEAR	Iron	mag	ASTM D5185m	>100	11	15	
All component wear rates are normal.       Nickel       ppm       ASTM 0515m       pdf       c1       0								
Titanium         ppm         ASTM D5185m         C         C1         0	All component wear rates are normal.							
Silver         ppm         ASTM D318:m         >3         0         0					21			
Auminum         ppm         ASTM D5185n         >20         5         11            Lead         ppm         ASTM D5185n         >40         <1					-3			
Lead         pp         ASTM D5185         >-40         <1         0            Copper         ppm         ASTM D5185         >-30         3         4            Tin         ppm         ASTM D5185         >15         -1         -1            Vanadium         ppm         ASTM D5185         >15         -1         -1            White Metal         scalar         Visual         NONE         NONE         NONE            Vellow Metal         scalar         Visual         NONE         NONE            There is no indication of any contamination in the oil.         Silicon         ppm         ASTM D5185         >20         7         19            Fuel         WD Method         >20         Visual         NONE         NONE            Glycod         WD Method         >20         9.2         10.5            Sott %         %         MSITM 744         >30         21            Sott %         %         MSITM 745         30         21.4            Sott %         %         MSITM 744         20								
Copper         ppm         ASTM D5185m         >330         3         4            Tin         ppm         ASTM D5185m         >15         <1								
Tin         ppm         ASTM D5185m         >15         c1         <1         <1         <1           Vanadium         ppm         ASTM D5185m          <1								
Vanadium         ppm         ASTM D5185m          <1         <1         <1           White Metal Vellow Metal         scalar         "Visual         NONE         NONE         NONE            CONTAMINATION         scalar         "Visual         NONE         NONE         NONE            There is no indication of any contamination in the oil.         Silicon         ppm         ASTM D5185m         >20         7         19            Valuer         ppm         ASTM D5185m         >20         7         19            Valuer         WC Method         >5         <1.0								
White Metal Yeliow Metal         scalar         'Visual         NONE					>15			
Yellow Metal         scalar         Visual         NONE         NONE            CONTAMINATION         Silicon         pp         ASTM 05185n         >20         7         19            Potassium         pp         ASTM 05185n         >20         7         19            Fuel         WC Method         >5         <1.0					NONE			
CONTAMINATION         Silicon         ppm         ASTM D5185m         >25         6         8            There is no indication of any contamination in the oil.         Pitassium         ppm         ASTM D5185m         >20         7         19            Fuel         WC Method         >5         <1.0								
Potassium         pp         ASTM D5185m         >20         7         19            Fuel         WC Method         >5         <1.0		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Potassium         pp         ASTM D5/85m         >20         7         19            Fuel         WC Method         >5         <1.0	CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	8	
Fuel         Wick Method         Sol         K1.0         K1.0         K1.0         K2.0         K2.10         K2.10         K2.0		Potassium	ppm	ASTM D5185m	>20	7	19	
Giycol         WC Method         NEG         NEG <t< td=""><th>Fuel</th><td></td><td>WC Method</td><td>&gt;5</td><th>&lt;1.0</th><td>&lt;1.0</td><td></td></t<>		Fuel		WC Method	>5	<1.0	<1.0	
Soot %         %         *ASTM D7844         >3         0.5         0.4            Nitration         Abs/ <m< td="">         *ASTM D7824         &gt;20         9.2         10.5            Sulfation         Abs/<m< td="">         *ASTM D7824         &gt;30         21.4         22.5            Sulfation         scalar         *Visual         NONE         NONE         NONE         NONE         NONE         NONE            Sand/Dirt         scalar         *Visual         NOR         NORM         NORM         NORM            Appearance         scalar         *Visual         NORM         NORM         NORM            Cdor         scalar         *Visual         NORM         NORM         NORM            FLUID CONDITION         Sodium         pp         ASTM D5185m</m<></m<></m<></m<></m<>		Water		WC Method	>0.2	NEG	NEG	
Soot %         %         *ASTM D7844         >3         0.5         0.4            Nitration         Abs/cm         *ASTM D7624         >20         9.2         10.5            Sulfation         Abs/cm         *ASTM D7624         >30         21.4         22.5            Sulfation         scalar         *Visual         NONE         NONE         NONE         NONE         NONE         NONE            Sand/Dirt         scalar         *Visual         NOR         NORM         NORM         NORM            Appearance         scalar         *Visual         NORM         NORM         NORM            Modor         scalar         *Visual         NORM         NORM         NORM            Emulsified Water         scalar         *Visual         NORM		Glycol		WC Method		NEG	NEG	
Nitration       Abs/cm       *ASTM D7624       >20       9.2       10.5          Sulfation       Abs/tm       *ASTM D7415       >30       21.4       22.5          Silt       scalar       *Visual       NONE       NONE       NONE       NONE          Debris       scalar       *Visual       NONE       NONE       NONE       NONE          Sand/Dirt       scalar       *Visual       NORE       NONE       NONE          Appearance       scalar       *Visual       NORML       NORML       NORML       NORML          Odor       scalar       *Visual       NORML       NORML       NORML       NORML          The BN result indicates that there is suitable alkalinity remaining in the oil is acceptable for the time in service.       Sodium       ppm       ASTM D5185m       0       0          Magnaese       ppm       ASTM D5185m       0       67       115          Magnesium       ppm       ASTM D5185m       0           Magnesium       ppm       ASTM D5185m       0           Magnesium		Soot %	%		>3	0.5		
SulfationAbs/.tmYASTM D7415>3021.422.5Siltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORNORMNORMOdorscalar*VisualNORNORMNORMDebrisscalar*VisualNORNORMNORMAppearancescalar*VisualNORNORMNORMOdorscalar*VisualNORNORMNORMDebrisscalar*VisualNORNORMNORMAppearancescalar*VisualNORNORMNORMAppearancescalar*VisualNORNORMNORMModorscalar*VisualNORNORMNORMMolfieldscalar*VisualNORNORBorionppmASTM D5185n00<1		Nitration						
Siltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORENORENOREOdorscalar*VisualNORENORENOREOdorscalar*VisualNORENORENOREEmulsifiedWarescalar*VisualNORENOREEmulsifiedWarescalar*VisualNORNOREBronppmASTM DS185m00333BariumppmASTM DS185m00<-1								
Debris       scalar       *Visual       NONE       NONE          Sand/Dirt       scalar       *Visual       NONE       NONE          Appearance       scalar       *Visual       NORM       NORML       NORML          Odor       scalar       *Visual       NORM       NORML       NORML          Odor       scalar       *Visual       NORM       NORML       NORML          Moder       scalar       *Visual       NORM       NORML       NORML          Odor       scalar       *Visual       NORML       NORML          Bruisified Water       scalar       *Visual       NORML       NORML          FLUID CONDITION       Sodium       ppm       ASTM D5185m       0       0       33          Bruism       ppm       ASTM D5185m       0       60           Molybdenum       ppm       ASTM D5185m       0       617       115          Maganesium       ppm       ASTM D5185m       0       1025       669          Magnesium       ppm       ASTM D5185m								
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLOdorscalar*VisualNORMNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m0033BoronppmASTM D5185m0033BariumppmASTM D5185m0033MolybdenumppmASTM D5185m06671115MaganeseppmASTM D5185m010256699MagensiumppmASTM D5185m01025669MagensiumppmASTM D5185m01025669MagensiumppmASTM D5185m01025669MagensiumppmASTM D5185m01025669CalciumppmASTM D5185m01025669PhosphorusppmASTM D5185m10811027SulfurppmASTM D5185mI13161027SulfurppmASTM D5185mI13161027NoreppmASTM D5185mI13161027NoreppmASTM D5185mI13161027								
Appearance Odorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGFLUID CONDITIONSodiumppmASTM D5185m0033BoronppmASTM D5185m00<1								
Odorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGFLUID CONDITIONThe BN result indicates that there is suitable alkalinity remaining in the oil is acceptable for the time in service.SodiumppmASTM D5185m0033BariumppmASTM D5185m00<1								
Emulsified Water       scalar       *Visual       >0.2       NEG          FLUID CONDITION       Sodium       ppm       ASTM D5185m       2       4          Boron       ppm       ASTM D5185m       0       0       33          Barium       ppm       ASTM D5185m       0       0       <1								
Sodium       ppm       ASTM D5185m       2       4          Boron       ppm       ASTM D5185m       0       0       33          Barium       ppm       ASTM D5185m       0       0       <1								
Boron       ppm       ASTM D5185m       0       0       33          Barium       ppm       ASTM D5185m       0       0       <1								
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.       Barium       ppm       ASTM D5185m       0       <1	FLUID CONDITION							
oil. The condition of the oil is acceptable for the time in service.       Banum       ppm       ASTM D5185m       0       <1	The BN result indicates that there is suitable alkalinity remaining in the		ppm					
MolybdenumppmASIM D5185m067115ManganeseppmASTM D5185m0<1	, ,		ppm					
Magnesium       ppm       ASTM D5185m       0       1025       669          Calcium       ppm       ASTM D5185m       1237       1500          Phosphorus       ppm       ASTM D5185m       0       1081       838          Zinc       ppm       ASTM D5185m       1316       1027          Sulfur       ppm       ASTM D5185m       0       2690       3205          Oxidation       Abs/.1mm       *ASTM D7414       >25       17.1       19.9		•	ppm		0			
Calcium       ppm       ASTM D5185m       1237       1500          Phosphorus       ppm       ASTM D5185m       1081       838          Zinc       ppm       ASTM D5185m       1316       1027          Sulfur       ppm       ASTM D5185m       2690       3205          Oxidation       Abs/.1mm       *ASTM D7414       >25       17.1       19.9		U	ppm					
Phosphorus       ppm       ASTM D5185m       1081       838          Zinc       ppm       ASTM D5185m       1316       1027          Sulfur       ppm       ASTM D5185m       0       2690       3205          Oxidation       Abs/.1mm       *ASTM D7141       >25       17.1       19.9		-	ppm	ASTM D5185m	0	1025	669	
Zinc       ppm       ASTM D5185m       1316       1027          Sulfur       ppm       ASTM D5185m       2690       3205          Oxidation       Abs/.1mm       *ASTM D7414       >25       17.1       19.9		Calcium	ppm	ASTM D5185m		1237		
Sulfur         ppm         ASTM D5185m         2690         3205            Oxidation         Abs/.1mm         *ASTM D7414         >25         17.1         19.9		Phosphorus	ppm	ASTM D5185m		1081	838	
Sulfur         ppm         ASTM D5185m         2690         3205            Oxidation         Abs/.1mm         *ASTM D7414         >25         17.1         19.9		Zinc	ppm	ASTM D5185m		1316	1027	
Oxidation Abs/.1mm *ASTM D7414 >25 19.9		Sulfur		ASTM D5185m		2690	3205	
					>25			
			mg KOH/g					

Visc @ 100°C cSt

ASTM D445 14

14.5

14.5



**RTL PACLEASE - 7039 - Denver** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : RPL0017877 Received 379 W 66TH WAY : 12 Jul 2024 Lab Number : 06234598 Tested DENVER, CO : 15 Jul 2024 Diagnosed Unique Number : 11123432 : 15 Jul 2024 - Don Baldridge US 80221 Test Package : FLEET Contact: JEFF THOMAS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. thomasj2@rushenterprises.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Т: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

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Submitted By: TECHNICIAN ACCOUNT Page 2 of 2