**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL SEVERE ATTENTION** 

(PX420R)

3524 Component

Peter   Pete							
Test							
Sample Number							
Vicinity   Vicinity	st	UOM	Method	Limit/Abn		,	History2
	mple Number		Client Info				GFL0083204
Machine Age   ns					17 Jul 2024	21 May 2024	20 Jun 2023
March   Mar	achine Age	hrs	Client Info		0	0	363
Cilch Langed   Cilch Info   NA   N/A   N/A   Not Changed   Sample Status   SEVERE   SEVERE		hrs					
Filter Changed Sample Status		hrs					
Note	•						Ü
Iron	-		Client Info				_
Chromium   ppm   ASTM.D5186m   55   <1   2   <1     Nickel   ppm   ASTM.D5186m   55   <1   0   <1   <1     Titanium   ppm   ASTM.D5186m   52   0   <1   <1     Silver   ppm   ASTM.D5186m   52   0   <1   <1     O	mple Status				SEVERE	SEVERE	SEVERE
Chromium   ppm   ASTM.D5186m   55   <1   2   <1     Nickel   ppm   ASTM.D5186m   55   <1   0   <1   <1     Titanium   ppm   ASTM.D5186m   52   0   <1   <1     Silver   ppm   ASTM.D5186m   52   0   <1   <1     O	n	ppm	ASTM D5185m	>75	13	37	16
Nicke  ppm	romium		ASTM D5185m	>5		2	<1
Titanium   ppm   ASTM DS185m   22   0   <1   <1   <1   <1   <1   <1   <1	ckel				0	<1	<1
Silver   ppm   ASTM D5185m   >2   0   <1   0   0	anium	• •	ASTM D5185m	>2	0	<1	<1
Aluminum   ppm   ASTM D5185m   >15   3   0 9   6     Lead   ppm   ASTM D5185m   >25   0   <1   0     Copper   ppm   ASTM D5185m   >25   0   <1   0     Tin   ppm   ASTM D5185m   >4   0   <1   0     Vanadium   ppm   ASTM D5185m   >0   <1   <1     Vanadium   ppm   ASTM D5185m   >0   0   <1   <1     Vanadium   ppm   ASTM D5185m   >0   0   <1   <1     Vanadium   ppm   ASTM D5185m   >25   9	ver				0	<1	0
Lead   ppm   ASTM D5185m   2-5   0   36   31		• •					6
Copper	ad					<1	0
Tin	pper	• •	ASTM D5185m	>100	7	36	31
Vanadium   ppm   ASTM D5185m   NONE   NON					0	<1	0
White Metal   Scalar   Visual   NONE   NO	nadium		ASTM D5185m		0	<1	<1
Yellow Metal   scalar   *Visual   NONE   NONE   NONE   NONE	nite Metal			NONE	NONE	NONE	NONE
Silicon   ppm   ASTM D5185m   >25   9   4 1   7	llow Metal	scalar	*Visual	NONE		NONE	NONE
Potassium   ppm   ASTM D5185m   >20   ■ 187   ■ 1476   1							
Fuel	icon	ppm	ASTM D5185m	>25	9	<u>4</u> 1	7
Present in the oil.   Water   WC Method   SJ.0   NEG   NEG   NEG	tassium	ppm	ASTM D5185m	>20	<u> </u>	<u> </u>	1
Water   WC Method   So.2   NEG   NEG   NEG   NEG	el		WC Method	>3.0			<b>▲</b> 7.1
Soot %	ater			>0.2	NEG	NEG	NEG
Nitration   Abs/cm	ycol				<b>4</b> 0.10		
Sulfation   Abs/.imm   *ASTM D7415   >30   19.8   22.9   18.1	ot %	%	*ASTM D7844	>6	0.6	0.6	
Silt   scalar *Visual   NONE   NORML   NOR							
Debris scalar *Visual NONE Sand/Dirt scalar *Visual NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON							
Sand/Dirt   scalar *Visual   NONE   NONE   NONE   NONE   NONE   NONE   NONE   NONE   Appearance   scalar *Visual   NORML					_		
Appearance   Scalar   *Visual   NORML   NOR							
Odor         scalar         *Visual         NORML         20           The BN result indicates that there is suitable alkalinity remaining in the oil is no longer serviceable due to the presence of containing in the oil is no longer serviceable due to the pr							
Emulsified Water   scalar   *Visual   >0.2   NEG   NEG   NEG	•						
FLUID CONDITION           Boron ppm oil. The oil is no longer serviceable due to the presence of contaminants.         Sodium ppm ASTM D5185m 0 ppm ASTM D5185m 1010 ppm ASTM D5185m 1010 ppm ASTM D5185m 1010 ppm ASTM D5185m 1070 ppm ASTM D5185m 1150 ppm ASTM D							
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.  Boron ppm ASTM D5185m 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	iulsitied Water	scalar	*Visual	>0.2	NEG	NEG	NEG
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.  Boron ppm ASTM D5185m 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	dium	ppm	ASTM D5185m		_ 206	<u></u> 1725	10
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.  Barium ppm ASTM D5185m 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					_		20
Molybdenum   ppm   ASTM D5185m   60   85   293   54     Manganese   ppm   ASTM D5185m   0   0   <1   <1     Magnesium   ppm   ASTM D5185m   1010   890   808   663     Calcium   ppm   ASTM D5185m   1070   1056   1059   994     Phosphorus   ppm   ASTM D5185m   1150   986   783   838		ppm	ASTM D5185m	0	14	13	20
Manganese         ppm         ASTM D5185m         0         0         <1	ron						
Magnesium         ppm         ASTM D5185m         1010         890         808         663           Calcium         ppm         ASTM D5185m         1070         1056         1059         994           Phosphorus         ppm         ASTM D5185m         1150         986         783         838	ron rium	ppm	ASTM D5185m	0	0	0	0
Calcium         ppm         ASTM D5185m         1070         1056         1059         994           Phosphorus         ppm         ASTM D5185m         1150         986         783         838	ron rium olybdenum	ppm	ASTM D5185m ASTM D5185m	0	0 85	0 293	0 54
Phosphorus         ppm         ASTM D5185m         1150         986         783         838	ron rium olybdenum anganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 60 0	0 85 0	0 293 <1	0 54 <1
	ron rium olybdenum anganese agnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 60 0 1010	0 85 0 890	0 293 <1 808	0 54 <1 663
	ron rium llybdenum anganese agnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 60 0 1010 1070	0 85 0 890 1056	0 293 <1 808 1059	0 54 <1 663 994
Sulfur         ppm         ASTM D5185m         2060         3501         3182         2891	ron rium blybdenum anganese agnesium llcium osphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 60 0 1010 1070 1150	0 85 0 890 1056 986	0 293 <1 808 1059 783	0 54 <1 663 994 838
Oxidation	ron rium blybdenum anganese agnesium blcium osphorus	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 60 0 1010 1070 1150 1270	0 85 0 890 1056 986 1229	0 293 <1 808 1059 783 1168	0 54 <1 663 994 838 974
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.  Bal Mo Ma Ca	ria til saviation in the second of the secon	mple Number mple Date achine Age Age der Age Changed der Changed mple Status  n romium ckel anium over uminum ad ppper n nadium lite Metal llow Metal deter ycol ot % ration lfation t bris nd/Dirt pearance lor uulsified Water	mple Number mple Date schine Age hrs Age hrs Changed ser Changed mple Status mple mple scalar mple sca	mple Number mple Number client Info Client Info Client Info Age hrs Client Info Changed Client Info Market Parameter Param	mple Number mple Date chine Age hrs Client Info mple Status  In ppm ASTM D5185m >75  romium ppm ASTM D5185m >5  romium ppm ASTM D5185m >2  romium ppm	Imple Number         Client Info         GFL0125819           Imple Date         Client Info         17 Jul 2024           Inchine Age         hrs         Client Info         0           Age         hrs         Client Info         0           Age         hrs         Client Info         N/A           Inchine Age         hrs         ASTM D5185m         >2         1           Inchine Age <td< th=""><th>Imple Number         Client Info         GFL0125819         GFL0094489           Imple Date         Client Info         17 Jul 2024         21 May 2024           Inchine Age         hrs         Client Info         0         0           Age         hrs         Client Info         0         0           Changed         Client Info         N/A         N/A           Changed         Client Info         N/A         N/A           More Changed         Client Info         N/A         N/A           Marker Changed         ASTM D5185</th></td<>	Imple Number         Client Info         GFL0125819         GFL0094489           Imple Date         Client Info         17 Jul 2024         21 May 2024           Inchine Age         hrs         Client Info         0         0           Age         hrs         Client Info         0         0           Changed         Client Info         N/A         N/A           Changed         Client Info         N/A         N/A           More Changed         Client Info         N/A         N/A           Marker Changed         ASTM D5185

Base Number (BN) mg KOH/g ASTM D2896 9.8

Visc @ 100°C cSt

ASTM D445 15.4

10.0

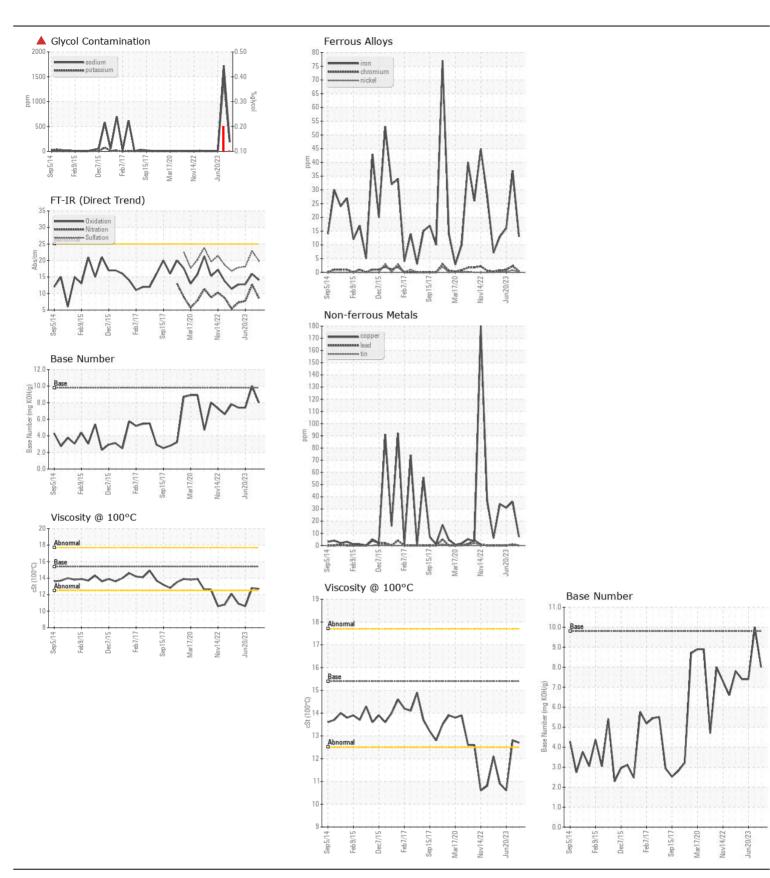
12.8

8.0

12.7

7.4

**10.6** 







Certificate L2367

Laboratory Sample No.

: GFL0125819 Lab Number : 06240067 Unique Number : 11128901 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Jul 2024

**Tested** : 19 Jul 2024 Diagnosed : 19 Jul 2024 - Wes Davis

GFL Environmental - 19DR - Deep Run/TriEast

2287 Leslie R Stroud Road Kinston, NC

US 28504-9477

Contact: TECHNICIAN ACCOUNT catherine.anastasio@wearcheck.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)

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